

# The Genus *Eudorylaimus* Andrásy, 1959 and the Present Status of Its Species (Nematoda: Qudsianematidae)

By

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**Abstract.** The old genus *Eudorylaimus* ANDRÁSSY, 1959 is discussed and its species are grouped on the basis of new aspects. The genus *Epidorylaimus* n. gen. (with 12 species) may be characterized by the longitudinal vulva and the long, ventrally bent tail. Type-species: *E. lugdunensis* (DE MAN, 1880) n. comb. *Allodorylaimus* n. gen. (with 19 species) is proposed for those forms of the old genus *Eudorylaimus* which have no precloacal space between the ventromedial row and the anal pair of supplements. Type-species: *A. uniformis* (THORNE & SWANGER, 1936) n. comb. *Microdorylaimus* n. gen. (with 14 species) contains small nematodes with long oesophagus and post-equatorial vulva. Type-species: *M. parvus* (DE MAN, 1880) n. comb. The genus *Eudorylaimus* ANDRÁSSY, 1959 s. str. (with 58 species) is proposed to be restricted for species of middle length showing a precloacal space in male and short, conoid, predominantly ventrally curved tails in both sexes. Type-species: *E. carteri* (BASTIAN, 1865) ANDRÁSSY, 1959. Keys to species of these genera are added as well as a list of the *Eudorylaimus* s. lato species comprising their present status. Several new combinations are proposed.

In 1959 when I revised the old genus *Dorylaimus* DUJARDIN, 1845, I proposed a separate genus for those species which had short — conoid or rounded — tails in both sexes. That genus, *Eudorylaimus* ANDRÁSSY, 1959, contained then 135 representatives. Although a part of them has been meanwhile transferred to other genera, several new forms enriched the genus during the last quarter of the century.

The number of species either described as *Eudorylaimus* or transferred from other genera to that increased to 238 till the present day. This large number of species was described by 53 authors, of which, however, merely six (and some co-authors) were responsible for 60 per cent of the species. Thus, THORNE (and SWANGER, in part) described 55 species (23%), ANDRÁSSY 28 species (12%), ALTHERR 20 species (8.5%), DE MAN 18 species (7.5%), LOOF 12 species (5%) and TJEPKEMA (and FERRIS and FERRIS) 10 species (4%).

*Eudorylaimus* became by now one of the largest genera of the freeliving Nematoda. The high number of species made the orientation within the genus almost impossible and rendered the recognition the members very difficult.

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Although, as mentioned, several species have been transferred to other genera — *Afrodorylaimus*, *Aporcelaimellus*, *Aporcelaimus*, *Aquatides*, *Chrysonemoides*, *Discolaimium*, *Discolaimoides*, *Dorydorella*, *Ecumenicus*, *Labronema*, *Laimydorus*, *Longidorella*, *Oriverutus*, *Paramonovia*, *Pungentus*, *Rhyssocolpus*, *Thonus* and *Willinema* — the species remaining in *Eudorylaimus* are still too numerous and query the homology of the genus. Consequently, a revaluation of *Eudorylaimus* seems to be inevitable.

The only work dealing with this theme was published by TJEPKEMA, FERRIS and FERRIS (1971). The authors pointed out the difficulties in systematization of the *Eudorylaimus* species and also urged a revision. For making the very large genus more handy, they divided it into six species groups: the *ca teri*-, *humilis*-, *lugdunensis*-, *miser*-, *granuliferus*- and *nothus* group. Unfortunately however the characters of these units are not decided enough and we cannot find essential differences between them. The “groups” of the American authors are thereupon not utilizable in systematization, perhaps with the exception of the *nothus* group which more or less corresponds to the genus *Thonus* THORNE, 1974 established since for *Eudorylaimus nothus* and relative forms.

Besides TJEPKEMA, FERRIS and FERRIS at least two names must not be left unmentioned. The one is THORNE's who described alone (1939, 1974) and in the company of SWANGER (1936) not less than 55 species, almost one quarter of the genus *Eudorylaimus*. Also many valuable data to taxonomy of the species are due to him. LOOF, the other authority in the field, published numerous useful comments on the status of the different species (1961, 1964, 1971, 1975), and gave a good redescription of the type species, *E. carteri* (BASTIAN, 1865), on the basis of topotypes.

In the present article I propose a new grouping of the “*Eudorylaimus*” species. I do not want to give a revision here, rather a guide for orientation in the great “mass” of species. I critically checked every species of the genus *Eudorylaimus* s. lato on the basis of their original descriptions and tried to sort them in more natural units. I made two steps. First, I divided the species into two large groups: one containing forms with conoid tail, and the other including species with rounded tail. These latter were then transferred to the genus *Thonus*. The second step was to check the homology of the conus-tailed forms. I found that they could be separated in four genera: the genus *Eudorylaimus* s. str. and three new ones. Besides this grouping mentioned so simplified here I transferred several species to other genera as well.

As a result of the present systematization the genus *Eudorylaimus* could be reduced to 58 species “only” (versus 238!).

### *Epidorylaimus* n. gen.

Qudsianematidae. Body small to moderately long, 0.6—2.1 mm. Cuticle smooth, sometimes very finely striated, especially on tail. Head set off from body, lips separate and mostly angular. Amphid caliciform. Spear moderately developed, 9 to 30  $\mu\text{m}$  long, as long to 1.5 times as long as labial diameter. Aperture generally 1/3 of spear length. Guiding ring simple, thin. Oesophagus enlarged near middle or posterior to it. Prerectum one to three anal diameters long. Vulva longitudinal or pore-like, cuticularized. Female gonads amphidelphic. Males

rare, known in three species only. No precloacal space between ventromedial row and adanal pair of supplements. Ventromedial supplements 4 to 9 in number. Tail shape the same in both sexes, ventrally curved, 3.5 to 8 times as long as anal diameter; tail tip pointed or finely rounded.

Type-species: *Dorylaimus lugdunensis* DE MAN, 1880 = *Epidorylaimus lugdunensis* (DE MAN, 1880) n. comb.

The genus resembles *Eudorylaimus* ANDRÁSSY, 1959 and *Chrysonemoides* SIDDIQI, 1969 but can be distinguished from *Eudorylaimus* by the longitudinal or pore-like vulva, the absence of a precloacal space and the longer tail (vulva generally transverse, precloacal space present, and tail at most thrice as long as

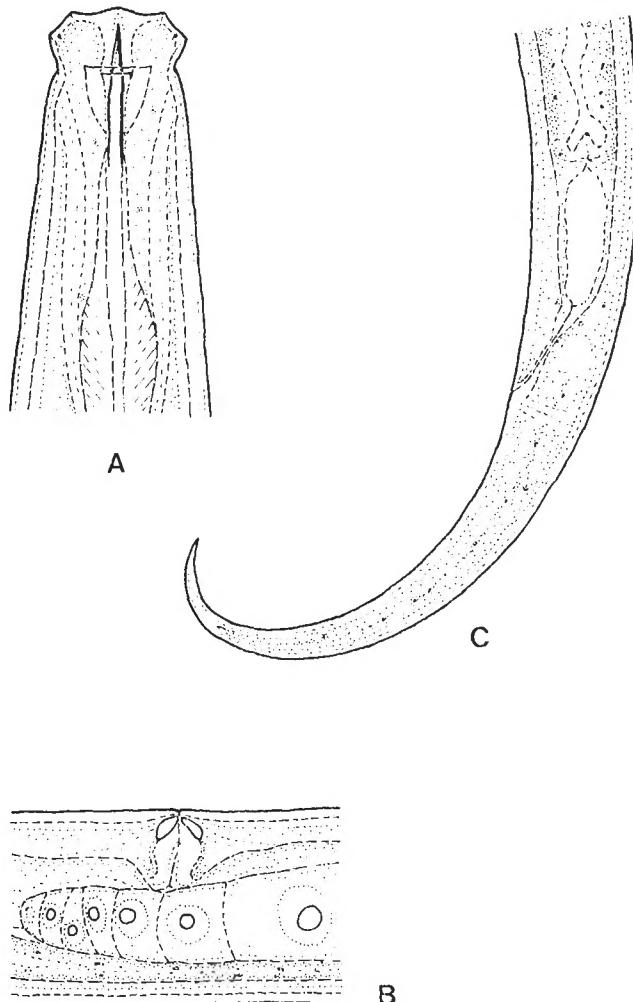


Fig. 1. *Epidorylaimus lugdunensis* (DE MAN, 1880) n. comb. A: anterior end (1600 $\times$ ); B: vulval region (1600 $\times$ ); C: posterior end (670 $\times$ ). Collected in the Börzsöny Mountains, Hungary, in ground water along a creek. ♀: L = 0.91 mm; a = 37; b = 3.6; c = 9.2; V = 47%; c' = 7; spear: 9  $\mu$ m

anal diameter in *Eudorylaimus*), from *Chrysoneoides* by the stronger spear, the non-transverse vulva and the absence of prominent papillae on male tail (spear very thin and weak, vulva transverse and male tail provided with large subventral papillae in *Chrysoneoides*).

Twelve species may be ordered here:

**E. agilis (DE MAN, 1880) n. comb.**

*Dorylaimus agilis* DE MAN, 1880

*Dorylaimus carteri agilis* DE MAN, 1880 (MICOLETZKY, 1922)

*Mesodorylaimus agilis* (DE MAN, 1880) GOODEY, 1963

*Laimydorus agilis* (DE MAN, 1880) SIDDIQI, 1969

*Eudorylaimus agilis* (DE MAN, 1880) LOOF, 1969

[Nec *Dorylaimus agilis* apud THORNE & SWANGER, 1936 = *Mesodorylaimus cryptosperma*!]

**E. angulosus (THORNE & SWANGER, 1936) n. comb.**

*Dorylaimus angulosus* THORNE & SWANGER, 1936

*Eudorylaimus angulosus* (THORNE & SWANGER, 1936) ANDRÁSSY, 1959

**E. consobrinus (DE MAN, 1918) n. comb.**

*Dorylaimus consobrinus* DE MAN, 1918

*Dorylaimus carteri rotundatus* MICOLETZKY, 1922

*Eudorylaimus consobrinus* (DE MAN, 1918) ANDRÁSSY, 1959

**E. filicaudatus (TJEPKEMA, FERRIS & FERRIS, 1971) n. comb.**

*Eudorylaimus filicaudatus* TJEPKEMA, FERRIS & FERRIS, 1971

**E. humilior (ANDRÁSSY, 1959) n. comb.**

*Eudorylaimus humilior* ANDRÁSSY, 1959

**E. humilis (THORNE & SWANGER, 1936) n. comb.**

*Dorylaimus humilis* THORNE & SWANGER, 1936

*Eudorylaimus humilis* (THORNE & SWANGER, 1936) ANDRÁSSY, 1959

*Dorylaimus incisus* THORNE & SWANGER, 1936 (n. syn.)

*Eudorylaimus incisus* (THORNE & SWANGER, 1936) ANDRÁSSY, 1959

**E. leptosoma (ALTHERR, 1963) n. comb.**

*Eudorylaimus leptosoma* ALTHERR, 1963

**E. lugdunensis (DE MAN, 1880) n. comb.**

*Dorylaimus lugdunensis* DE MAN, 1880

*Dorylaimus carteri lugdunensis* DE MAN, 1880 (MICOLETZKY, 1922)

*Eudorylaimus lugdunensis* (DE MAN, 1880) ANDRÁSSY, 1959

*Dorylaimus reisingeri* DITLEVSEN, 1927

*Eudorylaimus reisingeri* (DITLEVSEN, 1927) TJEPKEMA, FERRIS & FERRIS, 1971

*Dorylaimus curvatus* THORNE & SWANGER, 1936 (n. syn.)

*Eudorylaimus curvatus* (THORNE & SWANGER, 1936) ANDRÁSSY, 1959

*Eudorylaimus leptus* TJEPKEMA, FERRIS & FERRIS, 1971 (n. syn.)

**E. mellenbachensis (ALTHERR, 1974) n. comb.**

*Eudorylaimus mellenbachensis* ALTHERR, 1974

**E. muchabbatae** (TULAGANOV, 1949) n. comb.

*Dorylaimus muchabbatae* TULAGANOV, 1949

*Eudorylaimus muchabbatae* (TULAGANOV, 1949) ANDRÁSSY, 1959

**E. muscorum** (SKWARRA, 1921) n. comb.

*Dorylaimus muscorum* SKWARA, 1921

*Eudorylaimus muscorum* (SKWARA, 1921) ANDRÁSSY, 1959

**E. pseudoagilis** (ALTHERR, 1952) n. comb.

*Dorylaimus pseudoagilis* ALTHERR, 1952

*Mesodorylaimus pseudoagilis* (ALTHERR, 1952) ANDRÁSSY, 1959

*Eudorylaimus pseudoagilis* (ALTHERR, 1952) ZULLINI, 1970

*Key to the species of Epidorylaimus*

- 1 Vulva far forward, in 36% of body length. — ♀: L = 1.2 mm; a = 21; b = 4.4; c = 8.5; V = 36%. ♂ unknown. (Germany, Spain.) ..... **muscorum** (SKWARRA)
- Vulva further back, in 42–57% of body length. ..... 2
- 2 Tail long, 6–8 times anal diameter. ..... 3
- Tail shorter, 3.5–5 times anal diameter. ..... 4
- 3 Large species, 1.4–1.8 mm; spear 17–19  $\mu\text{m}$  long. — ♀: L = 1.4–1.8 mm; a = 32–43; b = 4.0–5.1; c = 10–14; V = 43–46%. ♂: L = 1.5 mm; a = 36; b = 4.7; c = 18; PO: 9. (Switzerland, Italy.) ..... **pseudoagilis** (ALTHERR)
- Smaller species, 0.6–1.1 mm; spear 9–11  $\mu\text{m}$  long. — ♀: L = 0.6–1.1 mm; a = 25–36; b = 3.2–4.6; c = 7–11; V = 42–54%. ♂: L = 1.0–1.1 mm; a = 29–43; b = 4.0–4.9; c = 15–19; PO: 4–6. (Holland, Germany, Switzerland, Austria, Hungary, Romania, Greenland, Spitzbergen, Soviet Union [Russia], United States [Utah, Indiana, Minnesota, North- and South Dakota].) ..... **lugdunensis** (DE MAN)
- 4 Larger species, 1.3–2.1 mm; spear length between 16 and 29  $\mu\text{m}$ . ..... 5
- Smaller species, 0.7–1.2 mm; spear length between 11 and 15  $\mu\text{m}$ . ..... 9
- 5 Spear 28–29  $\mu\text{m}$  long; vagina thick, half as long as corresponding width of body. — ♀: L = 1.7–2.0 mm; a = 42–50; b = 3.3–4.4; c = 19–38; V = 45–48%. ♂ unknown. (East Germany.) ..... **mellenbachensis** (ALTHERR)
- Spear 16–21  $\mu\text{m}$  long; vagina smaller. ..... 6
- 6 Tail comparatively shorter (c = 16–26); body slender (a = 31–44). ..... 7
- Tail comparatively longer (c = 10–13); body less slender (a = 23–32). ..... 8
- 7 Tail rapidly narrowing to its middle, then thin, nearly cylindrical. — ♀: L = 1.3–1.6 mm; a = 25–32; b = 4.0–4.5; c = 10–11; V = 45%. ♂ unknown. (Holland, Austria, Ireland, Sweden, Spitzbergen, Soviet Union [Russia, Armenia, Uzbekistan], Brazil.) ..... **agilis** (DE MAN)

- Tail gradually narrowing to its tip. — ♀: L = 1.2–1.5 mm; a = 23–27; b = 4.0–4.8; c = 10–15; V = 42–48%. ♂ unknown. (Poland, Hungary, Jugoslavia, Romania, United States [Utah, South Dakota].) ..... *angulosus* (THORNE & SWANGER)
- 8 Rectum almost two anal diameters long. — ♀: L = 1.5–1.7 mm; a = 35–40; b = 3.6–4.3; c = 16–18; V = 44–51%. ♂ unknown. (Czechoslovakia, Hungary, Norway, Soviet Union [Russia], Kenya, United States [Utah].) ..... *consobrinus* (DE MAN)
- Rectum one anal diameter long. — ♀: L = 1.6–2.1 mm; a = 31–44; b = 4.0–5.1; c = 16–26; V = 47–52%. ♂ unknown. (United States: Indiana.) ..... *filicaudatus* (TJEPKEMA, FERRIS & FERRIS)
- 9 Tip of tail pointed; cuticle at level of spear distinctly thinner than the latter ..... 10
- Tip of tail finely rounded; cuticle at level of spear as thick as the latter. .... 11
- 10 Lips well separate, head sharply set off from body. — ♀: L = 0.7 mm; a = 28; b = 4.4; c = 17; V = 49%. ♂ unknown. (Soviet Union: Uzbekistan.) ..... *muchabbatae* (TULAGANOV)
- Lips hardly separate, head slightly set off from body. — ♀: L = 0.7 mm; a = 34; b = 4.3; c = 15; V = 51%. ♂ unknown. (Hungary, Romania.) ..... *humilior* (ANDRÁSSY)
- 11 Body slender (a = 39–63); tail slender with nearly cylindrical posterior half. — ♀: L = 1.1–1.2 mm; a = 39–63; b = 3.5–4.3; c = 17–23; V = 45–50%. ♂: L = 1.2 mm; a = 60; b = 4.1; c = 22; PO: 5. (Switzerland.) ..... *leptosoma* (ALTHERR)
- Body less slender (a = 23–36); tail robust, gradually narrowing. — ♀: L = 0.8–1.1 mm; a = 23–36; b = 3.4–4.1; c = 14–19; V = 49–55%. ♂ unknown. (Jugoslavia, Bulgaria, Soviet Union [Uzbekistan], United States [California, Utah], Jamaica, Venezuela, New Hebrides.). ..... *humilis* (THORNE & SWANGER)

#### Remarks

*Epidorylaimus agilis*. — Since the male is unknown the taxonomic position of this species is somewhat uncertain. GOODEY (1963) ordered it, on the basis of the description of THORNE and SWANGER (1936), in the genus *Mesodorylaimus*, LOOF (1969) proved however that the specimens of the American authors were not conspecific with those of DE MAN, and provided the former species with the new name *Mesodorylaimus cryptosperma* LOOF, 1969. LOOF checked DE MAN's type specimens and compared them with other exemplars collected in Holland, and found that they belonged — briefly in arrangement of the oesophageal nuclei — to the genus *Eudorylaimus*. Although SINDIQI (1969) transferred *agilis* to the genus *Laimydorus* I am of LOOF's opinion that the species is closer to *Eudorylaimus* (guiding ring simple, tail bent ventrally) than to *Laimydorus*.

*Epidorylaimus filicaudatus*. — Maybe that this species is identical with *E. consobrinus*; the differences between them are hardly appreciable.

*Epidorylaimus humilis*. — I synonymize *Dorylaimus* (= *Eudorylaimus*) *incisus* with *E. humilis*. Both the description of THORNE and SWANGER (1936) and those of LOOF (1964) and TJEPKEMA, FERRIS and FERRIS (1971) show that there are no significant differences between these species.

*Epidorylaimus lugdunensis*. — Already in 1952 I synonymized *Dorylaimus reisingeri* with *lugdunensis* and although TJEPKEMA, FERRIS and FERRIS (1971) listed *reisingeri* as a separate species, I keep my former opinion. I even synonymize two further species with *lugdunensis*: *curvatus*

and *leptus*. TJEPKEMA, FERRIS and FERRIS write after examining the type specimens of *Dorylaimus curvatus*: "The differences between the two species (*curvatus* and *lugdunensis*) are so minor that they might be considered conspecific." Besides *curvatus* also *Eudorylaimus leptus* agrees very well with *lugdunensis*, so that I hardly doubt that all they belong to one and the same species.

*Epidorylaimus muscorum*. — An incompletely described species. Since its vulva opens unusually far forward I order it with reservation into the genus *Epidorylaimus*.

### *Allodorylaimus* n. gen.

Qudsianematidae. Body length varying from 0.9 to 3.3 mm. Cuticle smooth, occasionally very finely striated. Head set off from body in almost every species, lips rounded or angular. Amphid cup-shaped. Spear moderately long, 15 to 27  $\mu\text{m}$ , as long as labial width or a little longer; aperture 1/4 to 1/2 of its length. Guiding ring simple. Oesophagus enlarged near middle. Prerectum one to three times as long as rectum. Vulva longitudinal or transversal, with cuticularized lips, vagina thick, gonads amphidelphic. Males frequent. Ventromedial supplements 5 to 20, practically contiguous with the adanal pair, i.e. there is no precloacal space between them; hindermost supplement(s) lying level with spicula. Tail of both sexes similar and equal in length, generally bent ventrally, sometimes straight, conoid or dorsal-convex, as long to twice as long as anal diameter.

Type-species: *Dorylaimus uniformis* THORNE & SWANGER, 1936 = *Allodorylaimus uniformis* (THORNE & SWANGER, 1936) n. comb.

The new genus resembles *Eudorylaimus* very much but differs from that in the absence of the so-called "precloacal space" between the ventromedial row and the adanal pair of supplements. The hindermost one to three supplements are located at level of the spicula. It is possible that some of the species known recently in female forms only and ordered provisionally to the genus *Eudorylaimus* should later be transferred to *Allodorylaimus*. *Allodorylaimus* can be distinguished from *Epidorylaimus* n. gen. in having much shorter tails in both sexes.

Nineteen species may be listed here:

#### A. *allgeni* (ANDRÁSSY, 1958) n. comb.

*Dorylaimus allgeni* ANDRÁSSY, 1958

*Eudorylaimus allgeni* (ANDRÁSSY, 1958) ANDRÁSSY, 1959

*Dorylaimus carteri* apud ALLGÉN, 1929

#### A. *alpinus* (STEINER, 1914) n. comb.

*Dorylaimus alpinus* STEINER, 1914

*Eudorylaimus alpinus* (STEINER, 1914) ANDRÁSSY, 1959

*Eudorylaimus* sp. apud LOOF, 1961

#### A. *americanus* n. nom.

*Eudorylaimus irritans* apud TJEPKEMA, FERRIS & FERRIS, 1971

#### A. *andrassyi* (MEYL, 1955) n. comb.

*Dorylaimus andrassyi* MEYL, 1955

*Eudorylaimus andrassyi* (MEYL, 1955) ANDRÁSSY, 1959

[*Nec Eudorylaimus andrassyi* apud TJEPKEMA, FERRIS & FERRIS, 1971 = *Allodorylaimus ferrisorum*!]

[*Nec Eudorylaimus andrassyi* apud THORNE, 1974 = *Eudorylaimus magistri*!]

- A. bokori** (ANDRÁSSY, 1959) n. comb.  
*Dorylaimus bokori* ANDRÁSSY, 1959  
*Eudorylaimus bokori* (ANDRÁSSY, 1959) ANDRÁSSY, 1959
- A. diadematus** (COBB in THORNE & SWANGER, 1936) n. comb.  
*Dorylaimus diadematus* COBB in THORNE & SWANGER, 1936  
*Eudorylaimus diadematus* (COBB in THORNE & SWANGER, 1936) ANDRÁSSY, 1959  
*Dorylaimus cinctus* COBB in THORNE & SWANGER, 1936  
*Eudorylaimus cinctus* (COBB in THORNE & SWANGER, 1936) TJEPKEMA, FERRIS & FERRIS, 1971
- A. digiturus** (THORNE, 1939) n. comb.  
*Dorylaimus digiturus* THORNE, 1939  
*Eudorylaimus digiturus* (THORNE, 1939) ANDRÁSSY, 1959
- A. ferrisorum** n. nom.  
*Eudorylaimus andrassyi* apud TJEPKEMA, FERRIS & FERRIS, 1971
- A. granuliferus** (COBB, 1893) n. comb.  
*Dorylaimus granuliferus* COBB, 1893  
*Eudorylaimus granuliferus* (COBB, 1893) ANDRÁSSY, 1959  
*Dorylaimus micrurus* DADAY, 1905  
*Dorylaimus carteri micrurus* DADAY, 1905 (MICOLETZKY, 1922)  
*Dorylaimus menzeli* BALLY & RAYDON, 1931  
*Dorylaimus yucatanensis* CHITWOOD, 1938  
*Eudorylaimus yucatanensis* (CHITWOOD, 1938) GOODEY, 1963  
*Dorylaimus reynecki* VAN DER LINDE, 1938  
*Eudorylaimus reynecki* (VAN DER LINDE, 1938) TJEPKEMA, FERRIS & FERRIS, 1971
- A. holdemani** (ANDRÁSSY, 1959) n. comb.  
*Dorylaimus holdemani* ANDRÁSSY, 1959  
*Eudorylaimus holdemani* (ANDRÁSSY, 1959) ANDRÁSSY, 1959
- A. husmanni** (ALTHERR, 1972) n. comb.  
*Eudorylaimus husmanni* ALTHERR, 1972
- A. irritans** (COBB in THORNE & SWANGER, 1936) n. comb.  
*Dorylaimus irritans* COBB in THORNE & SWANGER, 1936  
*Eudorylaimus irritans* (COBB in THORNE & SWANGER, 1936) ANDRÁSSY, 1959  
[Nec *Eudorylaimus irritans* apud TJEPKEMA, FERRIS & FERRIS = *Allo-dorylaimus americanus*!]
- A. parasimilis** (KREIS, 1963) n. comb.  
*Dorylaimus parasimilis* KREIS, 1963  
*Eudorylaimus parasimilis* (KREIS, 1963) ANDRÁSSY, 1969
- A. piracicabensis** (LORDELLO, 1955) n. comb.  
*Dorylaimus piracicabensis* LORDELLO, 1955  
*Eudorylaimus piracicabensis* (LORDELLO, 1955) ANDRÁSSY, 1959

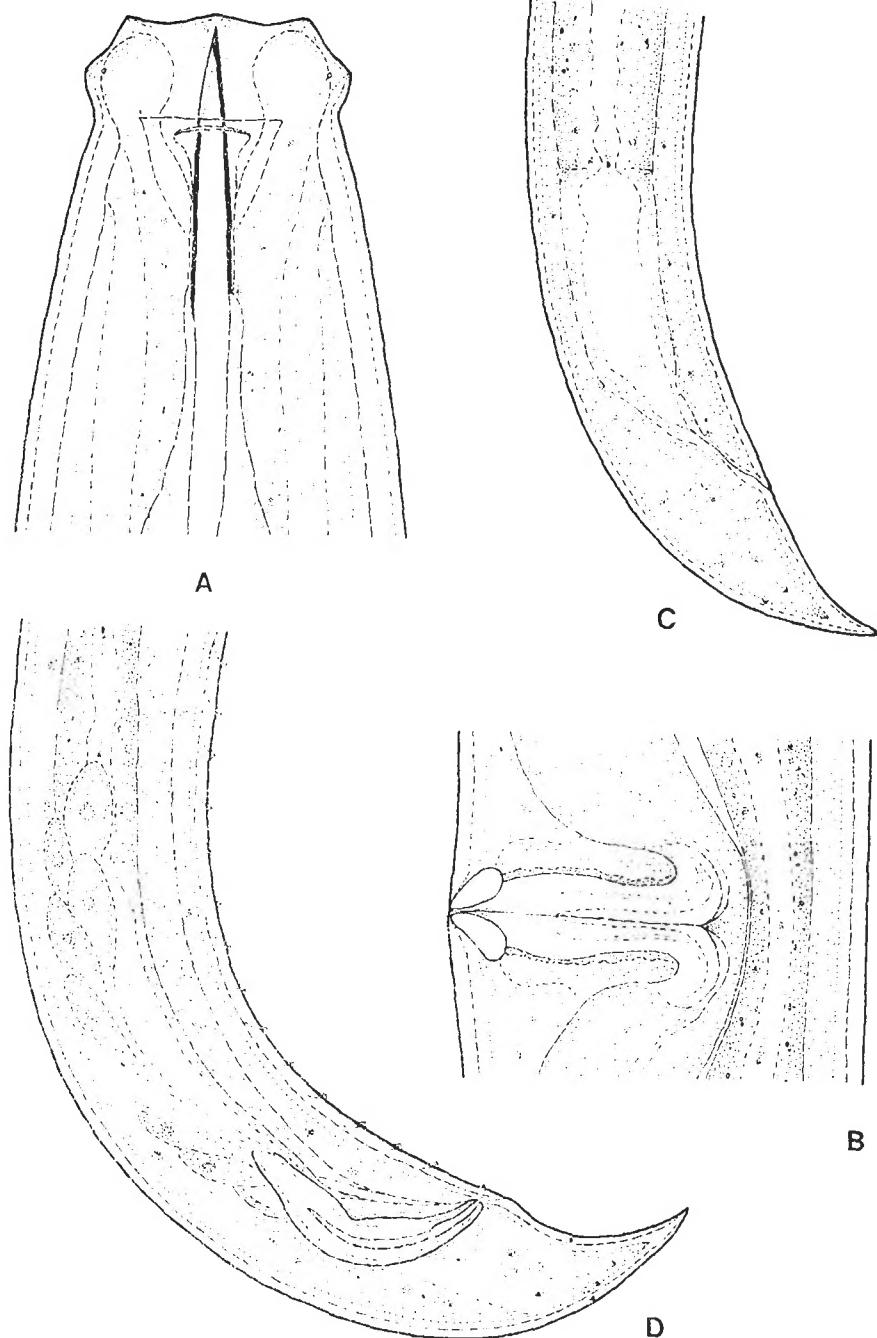


Fig. 2. *Allodorylaimus septentrionalis* (KREIS, 1963) n. comb. A: anterior end ( $1600\times$ ); B: vulval region ( $800\times$ ); C: female posterior end ( $430\times$ ); D: male posterior end ( $430\times$ ). Collected in Alesund, Seitzbergen, Norway, in ground water. ♀: L = 2.42 mm; a = 45; b = 5.0; c = 47; V = 49%; c' = 1.6; spear: 21  $\mu\text{m}$ . ♂: L = 2.50 mm; a = 42; b = 5.4; c = 44; PO: 14

**A. robustus** (THORNE, 1974) n. comb.  
*Eudorylaimus robustus* THORNE, 1974

**A. santosi** (MEYL, 1957) n. comb.  
*Dorylaimus santosi* MEYL, 1957  
*Eudorylaimus santosi* (MEYL, 1957) ANDRÁSSY, 1959

**A. septentrionalis** (KREIS, 1963) n. comb.  
*Dorylaimus septentrionalis* KREIS, 1963  
*Eudorylaimus septentrionalis* (KREIS, 1963) ANDRÁSSY, 1969

**A. tarkoenensis** (ANDRÁSSY, 1959) n. comb.  
*Eudorylaimus tarkoenensis* ANDRÁSSY, 1959  
*Dorylaimus* sp. apud ANDRÁSSY, 1952

**A. uniformis** (THORNE, 1929) n. comb.  
*Dorylaimus uniformis* THORNE, 1929  
*Eudorylaimus uniformis* (THORNE, 1929) ANDRÁSSY, 1959  
*Dorylaimus acuticauda* apud STEINER, 1916

*Key to the species of Allodorylaimus*

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|--|---------------------|
| 1 Tails of both sexes ventrally curved. . . . .  | 2                   |
| — Tails of both sexes straight or slightly bent dorsally*. . . . .   | 16                  |
| 2 Ventromedial supplements 5. — ♀ unknown. ♂: L = 1.9 mm; a = 39; b = 5.7; c = 48; PO: 5. (Hungary, Soviet Union [Georgia].) . . . . .                                   |                     |
|  | bokori (ANDRÁSSY)   |
| — Ventromedial supplements 9 or more. . . . .  | 3                   |
| 3 Body 2 mm or longer. . . . .   | 4                   |
| — Body shorter than 2 mm. . . . .  | 9                   |
| 4 Body very large, more than 3 mm. — ♀ unknown. ♂: L = 3.3 mm; a = 37; b = 6.1; c = 57; PO: 14. (Iceland.) . . . . .   |                     |
|  | parasimilis (KREIS) |
| — Body maximum 2.5 mm long. . . . .  | 5                   |
| 5 Tail very short, hardly as long as one anal body diameter. — ♀ unknown. ♂: L = 2.2 mm; a = 22–25; b = 3.8–5.7; c = 51–61; PO: 14–15. (Holland, Switzerland.) . . . . . |                     |
|  | alpinus (STEINER)   |
| — Tail conspicuously longer than one anal diameter. . . . .  | 6                   |
| 6 Ventromedial supplements 9 to 13; vagina half as long as body diameter. . . . .  | 7                   |
| — Ventromedial supplements 13 to 18; vagina about two-thirds body diameter long. . . . .   | 8                   |
| 7 Lips angular, cephalic region well set off from body; female tail with numerous subventral blisters. — ♀: L = 2.0–2.6 mm; a = 26–37; b = 4.3–4.9;                      |                     |

\* In one case the male tail is ventrally curved.

- $c = 33 - 40$ ;  $V = 50\%$ . ♂:  $L = 1.8 - 2.1$  mm;  $a = 24 - 27$ ;  $b = 4.1 - 4.5$ ;  $c = 29 - 50$ ; PO: 9 - 13. (Sweden) ..... **husmanni** (ALTHERR)
- Lips rounded, cephalic region slightly set off from body; female tail without blisters. - ♀:  $L = 2.2$  mm;  $a = 29 - 33$ ;  $b = 5.3 - 6.0$ ;  $c = 37 - 41$ ;  $V = 46 - 47\%$ . ♂:  $L = 1.8 - 1.9$  mm;  $a = 27 - 31$ ;  $b = 5.1 - 5.5$ ;  $c = 36 - 38$ ; PO: 10 - 12. (Holland, West Germany, Soviet Union [Far East], Israel.) ..... **andrassyi** (MEYL)
- 8 Body slender ( $a = 40 - 46$ ); tail comparatively short ( $c = 40 - 54$ ). - ♀:  $L = 2.4 - 2.7$  mm;  $a = 40 - 46$ ;  $b = 5.0 - 5.4$ ;  $c = 40 - 54$ ;  $V = 48 - 52\%$ . ♂:  $L = 2.3 - 2.5$  mm;  $a = 36 - 45$ ;  $b = 4.2 - 5.4$ ;  $c = 34 - 46$ ; PO: 13 - 16. (Spitzbergen, Iceland.) ..... **septentrionalis** (KREIS)
- Body less slender ( $a = 30$ ); tail longer ( $c = 25$ ). - ♀:  $L = 2.4$  mm;  $a = 30$ ;  $b = 4.5$ ;  $c = 25$ ;  $V = 49\%$ . ♂:  $L = 2.1$  mm;  $a = 29$ ;  $b = 4.3$ ;  $c = 31$ ; PO: 14 - 18. (Austria, Soviet Union [Russia, Georgia], United States [Colorado, Utah].) ..... **uniformis** (THORNE & SWANGER)
- 9 Body hardly 1 mm long; tail twice anal diameter. - ♀:  $L = 0.9 - 1.0$  mm;  $a = 30 - 33$ ;  $b = 3.6 - 4.4$ ;  $c = 26 - 32$ ;  $V = 50 - 54\%$ . ♂:  $L = 0.8 - 1.0$  mm;  $a = 35 - 40$ ;  $b = 4.2 - 4.4$ ;  $c = 30 - 33$ ; PO: 13 - 15. (Brazil, United States.) ..... **santosi** (MEYL)
- Body distinctly longer than 1 mm; tail shorter than two anal diameters. . . . . 10
- 10 Ventromedial supplements 10 - 13. . . . . 11
- Ventromedial supplements 14 - 18. . . . . 15
- 11 Lip region continuous with neck, not set off. . . . . 12
- Lip region distinctly set off. . . . . 13
- 12 Tail tip digitiform, cylindrical. - ♀ unknown. ♂:  $L = 1.3$  mm;  $a = 28$ ;  $b = 5.2$ ;  $c = 24$ ; PO: 11. (Holland.) ..... **digiturus** (THORNE)
- Tail tip not digitiform, conical. - ♀:  $L = 1.3$  mm;  $a = 21 - 26$ ;  $b = 4.2 - 4.4$ ;  $c = 27 - 29$ ;  $V = 53\%$ . ♂:  $L = 1.1$  mm;  $a = 29$ ;  $b = 4.1$ ;  $c = 35$ ; PO: 12. (Hungary, Soviet Union [Lithuania].) ..... **tarkoenensis** (ANDRÁSSY)
- 13 Small species, 1.2 mm. - ♀:  $L = 1.2$  mm;  $a = 18$  (?);  $b = 4$ ;  $c = 37$ ;  $V = 50\%$ . ♂:  $L = 1.2$  mm;  $a = 24$ ;  $b = 3.9$ ;  $c = 35$ ; PO: 12 - 13. (Sweden, Romania, Bulgaria.) ..... **allgeni** (ANDRÁSSY)
- Larger species, 1.8 - 1.9 mm. . . . . 14
- 14 Spear 27  $\mu$ m long, aperture 1/2 of its length; tail subdigitate. - ♀:  $L = 1.9$  mm;  $a = 24$ ;  $b = 4.0$ ;  $c = 36$ ;  $V = 55\%$ . ♂:  $L = 1.9$  mm;  $a = 24$ ;  $b = 4.3$ ;  $c = 41$ ; PO: 12 - 13. (Bulgaria, Italy, Nepal.) ..... **holdemani** (ANDRÁSSY)

- Spear 15  $\mu$ , long, aperture 1/3 of its length; tail uniformly conoid. — ♀: L = 1.8 mm; a = 30; b = 4.3; c = 36; V = 56%. ♂: L = 1.6 mm; a = 28; b = 3.9; c = 28; PO: 11. (United States: South Dakota.) ..... *robustus* (THORNE)
- 15 Body 1.5–2.0 mm, spear 15–17  $\mu$ m, shorter than labial diameter. — ♀: L = 1.5–2.0 mm; a = 28–35; b = 4.3–6.3; c = 29–43; V = 47–53%. ♂: L = 1.6–1.8 mm; a = 29–36; b = 4.1–5.3; c = 34–43; PO: 14–18 (20). (United States: Indiana.) ..... *ferrisorum* n. nom.
- Body 0.9–1.3 mm; spear 18–20  $\mu$ m, longer than labial diameter. — ♀: L = 0.9–1.3 mm; a = 19–28; b = 3.2–3.9; c = 23–36; V = 50–58%. ♂: L = 1.3 mm; a = 27; b = 3.8; c = 47; PO: 18. (Brazil.) ..... *piracicabensis* (LORDELLO)
- 16 Male tail bent ventrally. — ♀: L = 1.1–1.4 mm; a = 23–27; b = 3.6–5.6; c = 20–26; V = 47–53%. ♂: L = 1.2 mm; a = 25; b = 4.0; c = 26; PO: 9–10. (Jugoslavia, Italy, Soviet Union [Georgia], South Africa, Jamaica, Venezuela, Brazil.) ..... *diadematus* (COBB in THORNE & SWANGER)
- Male tail straight or slightly bent dorsally (dorsal-convex). ..... 17
- 17 Ventromedial supplements 14; spicula 63  $\mu$ m long. — ♀: L = 1.2–1.7 mm; a = 22–32; b = 3.5–4.4; c = 30–50; V = 46–53%. ♂: L = 1.7 mm; a = 30; b = 4.0; c = 37; PO: 14. (United States: Indiana.) ..... *americanus* n. nom.
- Ventromedial supplements 7–9; spicula 85–95  $\mu$ m long. ..... 18
- 18 Prerectum very short, only as long as rectum; lips rounded. — ♀: L = 1.4–1.9 mm; a = 20–35; b = 4.0–4.9; c = 29–50; V = 48–58%. ♂: L = 1.5–1.6 mm; a = 21–34; b = 3.4–4.6; c = 32–56; PO: 8–9. (Czechoslovakia, Switzerland, Mongolia, Japan, Java, Sumatra, Fiji, Mauritius, United States [New York, Indiana, Hawaii], Trinidad, Suriname, Venezuela, Brazil, Paraguay.) ..... *granuliferus* (COBB)
- Prerectum about twice as long as rectum; lips angular. — ♀: L = 1.4 mm; a = 21; b = 3.6; c = 36; V = 50%. ♂: L = 1.5 mm; a = 32; b = 4.7; c = 36; PO: 7. (Jamaica.) ..... *irritans* (COBB in THORNE & SWANGER)

#### Remarks

*Allodorylaimus alpinus*. — The *Eudorylaimus* spec. (3) described by LOOF (1961) from the DE MANIAN material seems to be conspecific with STEINER's species. The body length agrees exactly (2.2 mm), the tail is similar in length and form, and also the number of the ventromedial supplements corresponds well to that of *alpinus* (14 : 15).

*Allodorylaimus americanus*. — See *A. irritans*.

*Allodorylaimus andrassyi*. — This species has been mentioned several times in the literature but neither the "andrassyi" of TJEPKEMA, FERRIS and FERRIS (1971) nor of THORNE (1974) is identical with MEYL's species. The form found by TJEPKEMA, FERRIS and FERRIS is smaller (1.5–2.0 versus 2.2 mm), its prerectum longer (3 versus 2 anal diameters), and the number of supplements greater (14–20 versus 11–12). Also the American authors stated these differences when they said: "This difference along with the other smaller differences may indicate that the Indiana specimens

do not actually belong to *E. andrassyi*." I propose a new name, *Allodorylaimus ferrisorum* n. nom., for this form. THORNE's "*andrassyi*" does belong to a third species. It differs from the true *andrassyi* by the shorter body (1.7 versus 2.2 mm), the less numerous supplements (8–9 versus 11–12) and the presence of a precloacal space; besides, the cuticle is much thicker on the American specimens. This species is renamed here after the late great master of nematology, Dr. THORNE, as *Eudorylaimus magistri* n. nom. It must be mentioned finally that *andrassyi* of MEYL is not conspecific with *Dorylaimus* sp. apud ANDRÁSSY, 1952 as MEYL supposed. Also ALTHERR (1972) perceived the differences between them when he said that MEYL's species is much longer (2.2 versus 1.3 mm) and its spicula larger (60 versus 39 µm). The *Dorylaimus* sp. mentioned above was named by me (1959) as *Eudorylaimus tarkoenensis*.

*Allodorylaimus diadematus*. — Long ago (1959) I synonymized *Dorylaimus cinctus* with *D. diadematus*. TJEPKEMA, FERRIS and FERRIS (1971) considered *cinctus* as a good species owing to the larger „b” value and the wider anal body diameter. These are however so insignificant differences that I adhere to my old opinion.

*Allodorylaimus ferrisorum*. — See *A. andrassyi*.

*Allodorylaimus granuliferus*. — Although TJEPKEMA, FERRIS and FERRIS listed *Eudorylaimus reynecki* as a separate species, I hold my old view (1959) on the identity of *granuliferus* and *reynecki*.

*Allodorylaimus irritans*. — The species described under the name "irritans" by TJEPKEMA, FERRIS and FERRIS (1971) essentially differs in two respects from the species of THORNE and SWANGER (1936): the number of supplements is 14 (versus 7) and the spicula are 63 µm long (versus 95 µm). I propose for it the new name *Allodorylaimus americanus* n. nom.

### *Microdorylaimus* n. gen.

Qudsianematidae. Body small, 0.3–0.8 mm, fairly plump. Cuticle smooth. Lips angular, labial region set off from neck. Amphid caliciform, generally large. Spear moderately developed, 8 to 12 µm long, about as long as labial diameter, with aperture occupying 1/3 or 1/4 of its length. Spear extension encircled by a bulb-like muscular swelling. Oesophagus long, nearly 1/3 of total body length ( $b = 2.7 - 3.8$ ), suddenly expanded in its posterior 2/5. Vulva transverse, not or only weakly cuticularized, post-equatorial to 62% of body length. Female genital organ amphidelphic, short. Males extremely rare, known in two species only. Ventromedial supplements spaced, 3 to 8 in number; no precloacal space. Tails in both sexes similar, conoid, predominantly ventrally curved, one to three anal diameters long.

Type-species: *Dorylaimus parvus* DE MAN, 1880 = *Microdorylaimus parvus* (DE MAN, 1880) n. comb.

The brief characteristics of *Microdorylaimus* are the small body, the long and far back expanded oesophagus, the posterior position of the hardly cuticularized vulva, the conoid tail and the rarity or absence of males. The new genus differs from *Eudorylaimus* ANDRÁSSY, 1959 in the small body and the combination of the above mentioned features.

Fourteen species may be ordered here:

**M. angleus** (THORNE, 1974) n. comb.

*Eudorylaimus angleus* THORNE, 1974

**M. diminutivus** (THORNE & SWANGER, 1936) n. comb.

*Dorylaimus diminutivus* THORNE & SWANGER, 1936

*Eudorylaimus diminutivus* (THORNE & SWANGER, 1936) ANDRÁSSY, 1959

**M. longicollis** (BRZESKI, 1964) n. comb.

*Eudorylaimus longicollis* BRZESKI, 1964

**M. minor** (COBB in THORNE & SWANGER, 1936) n. comb.

*Dorylaimus minor* COBB in THORNE & SWANGER, 1936

*Eudorylaimus minor* (COBB in THORNE & SWANGER, 1936) ANDRÁSSY, 1959

**M. minusculus** (Loos, 1946) n. comb.

*Enchodelus minusculus* Loos, 1946

*Eudorylaimus minusculus* (Loos, 1946) SIDDIQI, 1969

**M. miser** (THORNE & SWANGER, 1936) n. comb.

*Dorylaimus miser* THORNE & SWANGER, 1936

*Eudorylaimus miser* (THORNE & SWANGER, 1936) ANDRÁSSY, 1959

*Dorylaimus minutissimus* ALTHERR, 1950

**M. modestus** (ALTHERR, 1952) n. comb.

*Dorylaimus modestus* ALTHERR, 1952

*Eudorylaimus modestus* (ALTHERR, 1952) ANDRÁSSY, 1959

**M. modicus** (KIRJANOVA, 1951) n. comb.

*Dorylaimus modicus* KIRJANOVA, 1951

*Eudorylaimus modicus* (KIRJANOVA, 1951) ANDRÁSSY, 1959

**M. parvissimus** (ELIAVA & BAGATURIA, 1968) n. comb.

*Eudorylaimus parvissimus* ELIAVA & BAGATURIA, 1968

*Eudorylaimus modestus* apud THORNE, 1964 (n. syn.)

**M. parvus** (DE MAN, 1880) n. comb.

*Dorylaimus parvus* DE MAN, 1880

*Dorylaimus carteri parvus* DE MAN, 1880 (MICOLETZKY, 1922)

*Eudorylaimus parvus* (DE MAN, 1880) ANDRÁSSY, 1959

[Nec *Dorylaimus parrus* apud THORNE & SWANGER, 1936 = *Eudorylaimus paucipapillatus*!]

**M. profestus** (ANDRÁSSY, 1963) n. comb.

*Eudorylaimus profestus* ANDRÁSSY, 1963

**M. rapsoides** (HEYNS & LAGERWEY, 1965) n. comb.

*Eudorylaimus rapsoides* HEYNS & LAGERWEY, 1965

**M. rapsus** (HEYNS, 1963) n. comb.

*Eudorylaimus rapsus* HEYNS, 1963

**M. thornei** (TJEPKEMA, FERRIS & FERRIS, 1971) n. comb.

*Eudorylaimus thornei* TJEPKEMA, FERRIS & FERRIS, 1971

*Key to the species of Microdorylaimus*

- 1 Tail straight, dorsally convex-conoid, with blunt terminus. .... 2
- Tail ventrally bent, more or less pointed. .... 4
- 2 Head continuous with neck, lips amalgamated. - ♀: L = 0.37–0.39 mm; a = 17–24; b = 3.1–3.4; c = 17–21; V = 55–58%. ♂ unknown. (South Africa.) ..... *rapsoides* (HEYNS & LAGERWEY)  
- Head set off from neck, lips more or less separate. .... 3

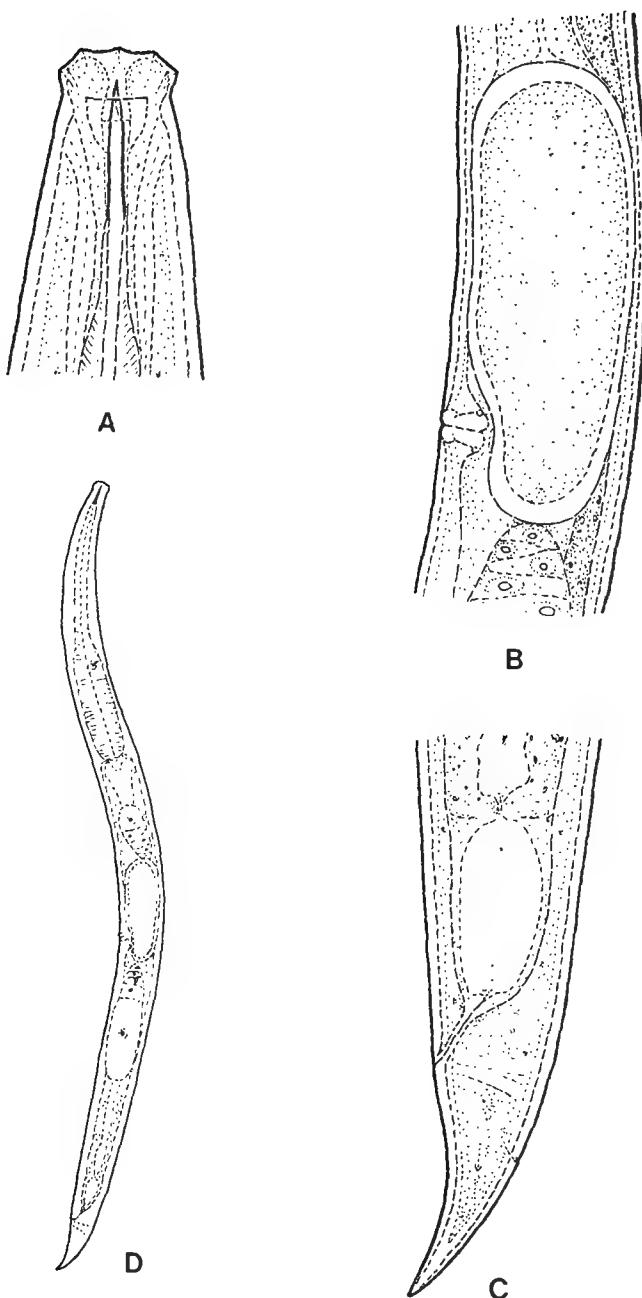


Fig. 3. *Microdorylaimus longicollis* (BRZESKI, 1964) n. comb. A: anterior end ( $1600\times$ ); B: vulval region ( $1000\times$ ); C: posterior end ( $1000\times$ ); D: female ( $210\times$ ). Collected in Gyékényes, Hungary, in litter of a hornbeam forest. ♀: L = 0.48 mm; a = 19; b = 2.9; c = 19; V = 58%; c' = 1.8; spear:  $10\ \mu\text{m}$

- 3 Smaller species, 0.5–0.6 mm; vulva in 56–60% of body length. – ♀: L = 0.54–0.63 mm; a = 15–21; b = 2.9–3.7; c = 16–34; V = 56–60%. ♂: L = 0.42 mm; a = 19; b = 3.0; c = 17; PO: 3. (Holland, Hungary, Soviet Union [Georgia], United States [Utah, Texas, Minnesota, North- and South Dakota], Venezuela.) . . . . . miser (THORNE & SWANGER)
- Larger species, 0.7–0.8 mm; vulva in 52–53% of body length. – ♀: L = 0.7–0.8 mm; a = 29–31; b = 3.2–3.5; c = 24–26; V = 52–53%. ♂ unknown. (Soviet Union: Uzbekistan.) . . . . . modicus (KIRJANOVA)
- 4 Tail about three anal diameters long. . . . . 5
- Tail one to two anal diameters long. . . . . 7
- 5 Tail strongly curved, hook-like; body 0.7–0.9 mm. – ♀: L = 0.73–0.96 mm; a = 28–35; b = 3.4–3.9; c = 16–29; V = 50–54%. ♂ unknown. (United States: Indiana.) . . . . . thornei (TJEPKEMA, FERRIS & FERRIS)
- Tail slightly curved, not hook-like; body 0.4–0.5 mm. . . . . 6
- 6 Vulva far from body center, in 3/5 of total length. – ♀: L = 0.50–0.53 mm; a = 23–24; b = 3.1; c = 13–15; V = 59–61%. ♂ unknown. (Sri Lanka.) . . . . . minusculus (LOOS)
- Vulva near middle of body. – ♀: L = 0.45–0.48 mm; a = 22–27; b = 3.0–3.1; c = 10–11; V = 47%. ♂ unknown. (Soviet Union [Georgia], Japan, Venezuela, Brazil.) . . . . . minor (COBB in THORNE & SWANGER)
- 7 Tip of tail sharply pointed. . . . . 8
- Tip of tail bluntly rounded and somewhat digitate. . . . . 11
- 8 Subcuticle in tail strikingly thickened dorsally. – ♀: L = 0.70–0.81 mm; a = 28–33; b = 3.5–4.0; c = 23–27; V = 59–60%. ♂ unknown. (Argentina.) . . . . . profestus (ANDRÁSSY)
- Subcuticle in tail not thickened dorsally. . . . . 9
- 9 Lips strongly angular with protruding papillae. – ♀: L = 0.5 mm; a = 25; b = 3.0; c = 16; V = 56%. ♂ unknown. (United States: South Dakota.) . . . . . angleus (THORNE)
- Lips less angular, papillae not protruding. . . . . 10
- 10 Very small species, 0.37–0.51 mm; aperture 1/3 of spear length. – ♀: L = 0.37–0.51 mm; a = 15–19; b = 2.7–3.3; c = 12–16; V = 48–60%. ♂ unknown. (Poland, Hungary, Soviet Union [Georgia].) . . . . . longicollis (BRZESKI)
- Somewhat larger species, 0.47–0.65 mm; aperture 1/2 of spear length. – ♀: 0.47–0.65 mm; a = 18–31; b = 3.2–4.0; c = 15–20; V = 51–55%. ♂: L = 0.50–0.63 mm; a = 21; b = 3.6; c = 17–18; PO: 5–8. (Holland, Germany, Switzerland, Denmark, Spitzbergen, Poland, Czechoslovakia, Austria, Hungary, Soviet Union [Russia, Estonia, Latvia, Lithuania, Georgia, Kirghizia, Tadzhikistan, Azerbaijan].) . . . . . parvus (DE MAN)

- 11 Aperture occupying almost 1/2 of spear length. .... 12  
 - Aperture occupying 1/5 of spear length. .... 13
- 12 Tail about as long as anal diameter; spear shorter than labial width. - ♀:  
 $L = 0.4 - 0.5$  mm;  $a = 17$ ;  $b = 3.3$ ;  $c = 23$ ;  $V = 57\%$ . ♂ unknown. (United States: California.) .... *diminutivus* (THORNE & SWANGER)
- Tail nearly twice as long as anal diameter; spear equal in length with labial width. - ♀:  $L = 0.33 - 0.60$  mm;  $a = 12 - 21$ ;  $b = 2.9 - 3.8$ ;  $c = 12 - 19$ ;  $V = 59 - 62\%$ . ♂ unknown. (South Africa, United States [Indiana].) .... *rapsus* (HEYNS)
- 13 Tail tip digitate. - ♀:  $L = 0.4$  mm;  $a = 15 - 19$ ;  $b = 3.3 - 3.5$ ;  $c = 12 - 19$ ;  $V = 59 - 60\%$ . ♂ unknown. (Soviet Union [Georgia], Canada, United States [Nebraska, South Dakota].) .... *parvissimus* (ELIAVA & BAGATURIA)
- Tail tip not digitate. - ♀:  $L = 0.42 - 0.43$  mm;  $a = 18 - 19$ ;  $b = 3.0 - 3.2$ ;  $c = 16 - 17$ ;  $V = 56 - 57\%$ . ♂ unknown. (Switzerland, Hungary, Italy, Soviet Union [Georgia], Ghana.) .... *modestus* (ALTHERR)

#### Remarks

*Microdorylaimus longicollis*. - TJEPKEMA, FERRIS and FERRIS synonymized this species with *Eudorylaimus rapsus*. I rather doubt the validity of this synonymization: *longicollis* has a tail of different shape, more slender and sharply pointed. It seems to be closer to *Microdorylaimus parvus* if not conspecific with that.

*Microdorylaimus minor*. - There is a single feature in which it is different from the other representatives of the genus: both THORNE and SWANGER (1936) and LOOF (1964) found the vulva to be a little pre-equatorial (in 47% of body length).

*Microdorylaimus miser*. - I place this species provisionally under *Microdorylaimus*; the labial region is slightly set off and the tail straight, not bent ventrally.

*Microdorylaimus rapsoides*. - I wonder if it is a valid *Microdorylaimus*. The small body, the structure of oesophagus, the shape and length of spear and the post-equatorial vulva well correspond to the generic characters, the head is however not set off in any manner and the tail straight.

#### *Qudsianema JAIRAJPURI, 1965*

Qudsianematidae. Body small, 0.6 - 0.7 mm. Cuticle smooth. Head not set off, lips angular. Amphid caliciform. Spear short, 8 - 9  $\mu$ m, equal with labial diameter, aperture occupying 1/3 of its length. Guiding ring single. Spear extension with basal muscular swelling. Oesophagus long, gradually widening behind middle, basal expansion "bulbar", i.e. with double swellings. Prerectum relatively long. Vulva transverse, with thin cuticularized liplets. Female genital organ amphidelphic, short. Male unknown. Tail conoid, bent ventrally.

Type-species: *Qudsianema amabile* JAIRAJPURI, 1965.

Similar to *Eudorylaimus* ANDRÁSSY, 1959 and *Microdorylaimus* n. gen. but differs from them in the peculiar shape of the oesophagus.

One species:

#### **Q. amabile JAIRAJPURI, 1965**

*Eudorylaimus amabilis* (JAIRAJPURI, 1965) SIDDIQI, 1966

### Remarks

JAIRAJPURI (1965) placed his genus *Qudsianema* under the family Leptonchidae, and established a new subfamily, Qudsianematinae, for it. SIDDIQI not accepting the bilobular appearance of the oesophagus for diagnostic value first (1966) synonymized the genus with *Eudorylaimus* and the subfamily with Dorylaiminae, later (1969) acknowledged JAIRAJPURI's subfamily as valid and raised it to family rank. He placed the following genera under Qudsianematidae: *Eudorylaimus* ANDRÁSSY, 1959 (Syn. *Qudsianema* JAIRAJPURI, 1965, *Crassolabium* YEATES, 1967), *Labronema* THORNE, 1939 (Syn. *Witoldinema* BRZESKI, 1960) and *Kochinema* HEYNS, 1963. In my book (1976) I also accepted the family name Qudsianematidae and listed eleven genera under it, among them the genus *Qudsianema*, too, regarding it as valid.

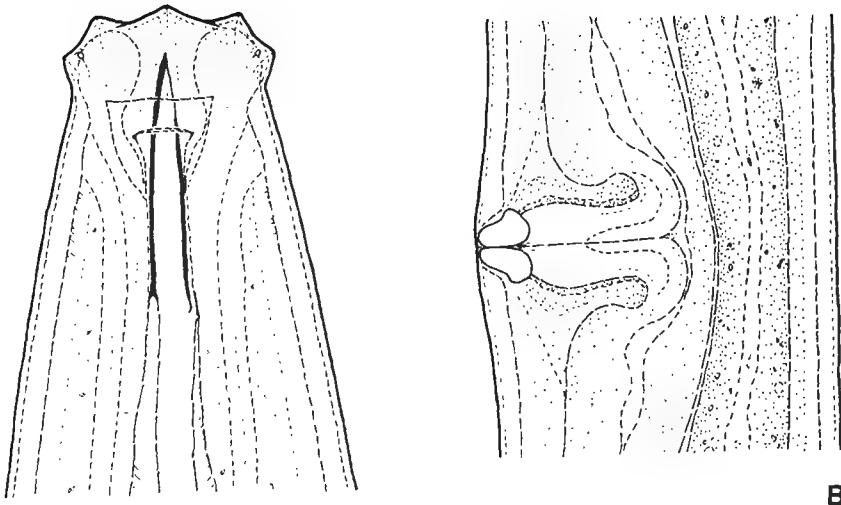
In my opinion, the bilobarity of the oesophagus seems to be an acceptable characteristic for the genus *Qudsianema*. JAIRAJPURI illustrated this feature on two different animals so that it seems to be constant. That such a shape may occur on the enlarged portion of oesophagus, I observed on an other species, *Eudorylaimus paradoxus* LOOF, 1975. In the paratype specimens of this species the oesophagus shows a quite similar picture as in JAIRAJPURI's animals: it is distinctly "bilobular". By the way, I place *paradoxus* under the family Nordiidae and provisionally to the genus *Rhysoscolopuss* ANDRÁSSY, 1971 (the spear, spear extension and vulva correspond to the general characteristics of this genus). If it will be proved later that also *Qudsianema* belongs to Nordiidae, the subfamily name Eudorylaiminae KHAN & FATIMA, 1980 ought to be regarded as valid for *Eudorylaimus* and related forms.

### *Eudorylaimus* ANDRÁSSY, 1959

Qudsianematidae. Body length varying between 0.9 and 3.5 mm. Cuticle smooth or, sometimes, very finely striated. Head generally well set off from body, lips predominantly angular and separate, occasionally amalgamated. Amphid stirrup-shaped or caliciform, well developed. Atrium comparatively wide, spear moderately long, 11 to 38  $\mu\text{m}$ , one to one and a half times as long as labial width. Guiding ring simple, elevated. Oesophagus enlarges generally a little posterior to its middle. Prerectum one to five times as long as anal diameter. Vulva transverse or, rarely, longitudinal, always with very distinct cuticularized liplets; vagina massive. Gonads paired, well developed. Males known in 45 per cent of the species. Ventromedial supplements 3 to 18, spacious; precloacal space between the ventromedial row and adanal pair of supplements present. Tails in both sexes similar, conoid, one to three times as long as anal diameter, predominantly ventrally curved, rarely straight or a little bent dorsally; tip of tail pointed or finely rounded.

Type-species: *Dorylaimus carteri* BASTIAN, 1865 = *Eudorylaimus carteri* (BASTIAN, 1865) ANDRÁSSY, 1959.

The genus *Eudorylaimus* is still one of the biggest genera of the free-living Nematoda although much more homogeneous than was before the present new systematization. Nevertheless, it is still possible that one or the other species must be transferred in other genera in the future. Maybe that the homogeneity of the genus would be more pronounced if only species with ventrally curved tail were left in it. *Eudorylaimus* may be distinguished from the related genera as follows: a) from *Thonus* THORNE, 1974 by the conoid, not broadly rounded tail, the well developed atrium around the spear and the "elevated" guiding ring; b) from *Qudsianema* JAIRAJPURI, 1965 by the cylindrical expansion of oesophagus; c) from *Ecumenicus* THORNE, 1974 by the amphidelphic female gonads; d) from *Willinema* BAQRI & JAIRAJPURI, 1967 by the paired gonads and the conical tail; e) from *Labronema* THORNE, 1939 by the less robust body, the narrower lip region, the simple guiding ring, the less numerous supplements and the conoid tail; f) from *Meladorylaimus* JAIRAJPURI & GOODEY, 1966 by the much thinner



A

B

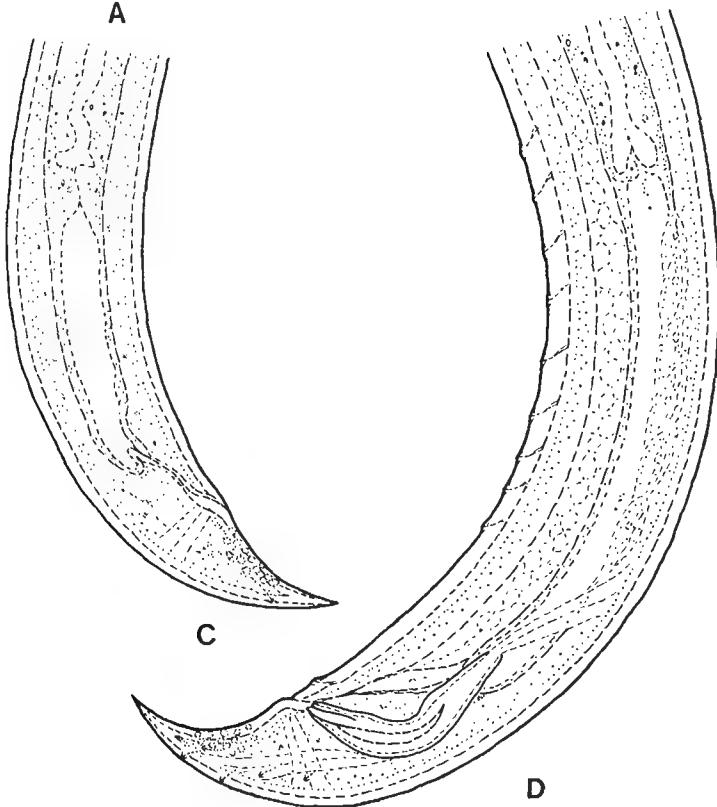


Fig. 4. *Eudorylaimus carteri* (BASTIAN, 1865) ANDRÁSSY, 1959. A: anterior end ( $1600\times$ ); B: vulval region ( $800\times$ ); C: female posterior end ( $430\times$ ); D: male posterior end ( $430\times$ ). Collected in Sikfőkút, Bükk Mountains, Hungary, from moss. ♀: L = 1.96 mm; a = 39; b = 4.7; c = 35; V = 55%; c' = 1.8; spear: 22  $\mu$ m. ♂: L = 2.0 mm; a = 40; b = 5.0; c = 40; c' = 1.4; PO: 9

spear and the conical tail; *g*) from *Oriverulus* SIDDIQI, 1971 by the smaller amphids, the shorter spear and the double ovaries; *h*) from *Epidorylaimus* n. gen. by the shorter tail, the predominantly transverse vulva and the presence of a precloacal space; *i*) from *Allodorylaimus* n. gen. by the presence of the precloacal space; *j*) from *Microdorylaimus* n. gen. by the larger body, the shorter oesophagus, the nearly equatorial position of vulva, the strongly cuticularized vulval lips and the frequency of males.

The following fifty-eight species belong to the genus:

**E. acuticauda (DE MAN, 1880) ANDRÁSSY, 1959**

*Dorylaimus acuticauda* DE MAN, 1880

*Dorylaimus carteri acuticauda* DE MAN, 1880 (MICOLETSKY, 1922)

*Eudorylaimus georgiensis* ELIAVA & BAGATURIA, 1968 (n. syn.)

[Nec *Dorylaimus acuticauda* apud STEINER, 1916 = *Allodorylaimus uniformis!*]

**E. acutus (THORNE & SWANGER, 1936) ANDRÁSSY, 1959**

*Dorylaimus acutus* THORNE & SWANGER, 1936

*Dorylaimus subacutus* ALTHERR, 1952

**E. altherri TJEPKEMA, FERRIS & FERRIS, 1971**

**E. antarcticus (STEINER, 1916) YEATES, 1970**

*Dorylaimus antarcticus* STEINER, 1916

*Antholaimus antarcticus* (STEINER, 1916) THORNE & SWANGER, 1936

**E. aquilonarius TJEPKEMA, FERRIS & FERRIS, 1971**

**E. arcus (THORNE & SWANGER, 1936) ANDRÁSSY, 1959**

*Dorylaimus arcus* THORNE & SWANGER, 1936

*Aporcelaimus mulveyi* BRZESKI, 1962

*Eudorylaimus mulveyi* (BRZESKI, 1962) TJEPKEMA, FERRIS & FERRIS, 1971

**E. bombilectus ANDRÁSSY, 1962**

*Eudorylaimus bombilectoides* ALTHERR, 1965 (n. syn.)

**E. brevis (ALTHERR, 1952) ANDRÁSSY, 1959**

*Dorylaimus carteri brevis* ALTHERR, 1952

*Eudorylaimus indianensis* TJEPKEMA, FERRIS & FERRIS, 1971 (n. syn.)

**E. bureshi (ANDRÁSSY, 1958) ANDRÁSSY, 1959**

*Dorylaimus bureshi* ANDRÁSSY, 1958

**E. carteri (BASTIAN, 1865) ANDRÁSSY, 1959**

*Dorylaimus carteri* BASTIAN, 1865

*Dorylaimus carteri littoralis* HOFMÄNNER, 1913

*Dorylaimus carteri profunda* HOFMÄNNER, 1913

*Dorylaimus carteri apicatus* MICOLETSKY, 1922

*Dorylaimus fasciatus* LINSTOW, 1879

*Eudorylaimus varians* THORNE, 1974 (n. syn.)

[Nec *Dorylaimus carteri* apud ALLGÉN, 1929 = *Allodorylaimus allgeni!*]

- E. centrocercus** (DE MAN, 1880) ANDRÁSSY, 1959  
*Dorylaimus centrocercus* DE MAN, 1880  
*Mesodorylaimus centrocercus* (DE MAN, 1880) GERAERT, 1966  
*Laimydorus centrocercus* (DE MAN, 1880) SIDDIQI, 1969  
*Dorylaimus paracentrocercus* DE CONINCK, 1935 (n. syn.)  
*Eudorylaimus paracentrocercus* (DE CONINCK, 1935) ANDRÁSSY, 1959  
*Dorylaimus obesus* COBB in THORNE & SWANGER, 1936 (n. syn.)  
*Eudorylaimus obesus* (COBB in THORNE & SWANGER, 1936) ANDRÁSSY, 1959
- E. chauhani** (BAQRI & KHERA, 1975) n. comb.  
*Aporcelaimellus chauhani* BAQRI & KHERA, 1975
- E. coloradensis** LOOF, 1971  
*Dorylaimus restibulifer* apud THORNE & SWANGER, 1936
- E. conicaudatus** THORNE, 1974
- E. coniceps** LOOF, 1975
- E. enckelli** ANDRÁSSY, 1967
- E. eremitus** (THORNE, 1939) ANDRÁSSY, 1959  
*Dorylaimus eremitus* THORNE, 1939
- E. fransus** HEYNS, 1963
- E. franzi** ANDRÁSSY, 1967
- E. ibiti** LORDELLO, 1965
- E. imitatoris** GAGARIN, 1982
- E. iners** (BASTIAN, 1865) ANDRÁSSY, 1959  
*Dorylaimus iners* BASTIAN, 1865  
*Dorylaimus gracilis* DE MAN, 1876  
*Eudorylaimus gracilis* (DE MAN, 1876) GOODEY, 1963
- E. isokaryon** LOOF, 1975
- E. junctus** (COBB in THORNE & SWANGER, 1936) ANDRÁSSY, 1959  
*Dorylaimus junctus* COBB in THORNE & SWANGER, 1936
- E. jurassicus** (ALTHERR, 1953) ANDRÁSSY, 1959  
*Dorylaimus jurassicus* ALTHERR, 1953
- E. leuckarti** (BÜTSCHLI, 1873) ANDRÁSSY, 1959  
*Dorylaimus leuckarti* BÜTSCHLI, 1873  
*Dorylaimus carteri brevicaudatus* MICOLETZKY, 1922
- E. lindbergi** ANDRÁSSY, 1960  
*Eudorylaimus curvicaudatus* ELIAVA, 1968 (n. syn.)
- E. longicardius** THORNE, 1974
- E. lotharingiae** ALTHERR, 1963

- E. magistri** n. nom.  
*Eudorylaimus andrassyi* apud THORNE, 1974
- E. maritimus** (DITLEVSEN, 1913) ANDRÁSSY, 1959  
*Dorylaimus maritimus* DITLEVSEN, 1913
- E. maritus** ANDRÁSSY, 1959
- E. megadon** LOOF, 1971
- E. meridionalis** TJEPKEMA, FERRIS & FERRIS, 1971
- E. nodus** (THORNE & SWANGER, 1936) ANDRÁSSY, 1959  
*Dorylaimus nodus* THORNE & SWANGER, 1936
- E. opistohystera** (ALTHERR, 1953) ANDRÁSSY, 1959  
*Dorylaimus opistohystera* ALTHERR, 1953
- E. paesleri** ANDRÁSSY, 1964
- E. parabokori** ALTHERR, 1974
- E. paradiscolaimioideus** ALTHERR, 1976
- E. paramonovi** ELIAVA & BAGATURIA, 1968
- E. paucipapillatus** n. nom.  
*Dorylaimus parvus* apud THORNE & SWANGER, 1936
- E. pectinatus** MUKHINA, 1970
- E. perspicuus** (ANDRÁSSY, 1958) ANDRÁSSY, 1959  
*Dorylaimus perspicuus* ANDRÁSSY, 1958
- E. pseudocarteri** LOOF, 1975
- E. quadramphidius** ANDRÁSSY, 1963
- E. rugosus** (ANDRÁSSY, 1957) ANDRÁSSY, 1959  
*Dorylaimus rugosus* ANDRÁSSY, 1957
- E. sabulophilus** TJEPKEMA, FERRIS & FERRIS, 1971
- E. schraederi** ALTHERR, 1974
- E. silvaticus** BRZESKI, 1960  
*Eudorylaimus noterophilus* TJEPKEMA, FERRIS & FERRIS, 1971 (n. syn.)
- E. similis** (DE MAN, 1876) ANDRÁSSY, 1959  
*Dorylaimus similis* DE MAN, 1876  
*Dorylaimus carteri similis* DE MAN, 1876 (MICOLETZKY, 1922)
- E. spaulli** LOOF, 1975
- E. spongiophylus** BATALOVA, 1983
- E. subdigitalis** TJEPKEMA, FERRIS & FERRIS, 1971
- E. sub junctus** LOOF, 1971

**E. truncatus** (COBB in THORNE & SWANGER, 1936) ANDRÁSSY, 1959

*Dorylaimus truncatus* COBB in THORNE & SWANGER, 1936

*Dorylaimus cobbi* THORNE, 1938

**E. turkestanicus** ELIAAVA, 1968

**E. verrucosus** LOOF, 1975

**E. vestibulifer** (MICOLETZKY, 1922) ANDRÁSSY, 1959

*Dorylaimus vestibulifer* MICOLETZKY, 1922

[Nec *Dorylaimus vestibulifer* apud THORNE & SWANGER, 1936 = *Eudorylaimus coloradensis*!]

*Key to the species of Eudorylaimus*

- 1 Tail conspicuously bent ventrally. .... 2
- Tail straight or slightly curved dorsally. .... 50
- 2 Large species, body 2 mm or longer (to 3.5 mm). .... 3
- Smaller species, body shorter than 2 mm.\* .... 19
- 3 Tail 2.5–3.5 times as long as anal diameter. .... 4
- Tail twice as long as anal diameter or shorter. .... 7
- 4 Spear robust, about 1/3 labial width; lips rounded. – ♀: L = 2.5 mm; a = 36; b = 6.3; c = 25; V = 48%. ♂ unknown. (Greenland.) ....  
*maritimus* (Ditlevsen)  
- Spear slender, about 1/6 labial width; lips angular. .... 5
- 5 Body about 2 mm long; spear 18–19 μm. – ♀: L = 2.1 mm; a = 27; b = 4.4–5.0; c = 24–25; V = 45–47%. ♂ unknown. (Soviet Union [Russia], Afghanistan, Mongolia.) ....  
*lindbergi* (ANDRÁSSY)  
- Body about 3 mm long; spear 30–35 μm. .... 6
- 6 Tail strongly curved, hook-like. – ♀: L = 2.6–3.0 mm; a = 40–46; b = 4.7–5.4; c = 38–45; V = 50–53%. ♂: L = 2.6–3.2 mm; a = 45–53; b = 4.6–5.5; c = 46–52; PO: 9–12. (Soviet Union: Lake Baikal.) ....  
*spongiphylus* BATALOVA  
- Tail slightly curved, not hook-like. – ♀: L = 2.7 mm; a = 50; b = 4.4; c = 28; V = 49%. ♂ unknown. (France.) ....  
*lotharingiae* ALTHERR
- 7 Spear unusually short, about 2/3 labial width or so. .... 8
- Spear as long as labial width or, mostly, longer. .... 9
- 8 Head cap-like, set off by a deep depression. – ♀ unknown. ♂: L = 2.2–2.6 mm; a = 33–34; b = 5.7–6.0; c = 40–46; PO: 20–22. (Austria, Czechoslovakia.) ....  
*vestibulifer* (MICOLETZKY)

\* Sometimes certain specimens may exceed two mm a little, the average value within the species falls, however, short of that.

- Head not set off. — ♀: L = 2.2 mm; a = 40; b = 5.2; c = 41; V = 49%. ♂ unknown. (United States: Utah.) ..... *eremitus* (THORNE) 10
- 9 Spear length between 15 and 20  $\mu\text{m}$ . ..... 10
- Spear length between 23 and 38  $\mu\text{m}$ . ..... 12
- 10 Female tail with several subventral blisters (saccate bodies). ..... 11
- Female tail without blisters. — ♀: L = 2.3–3.1 mm; a = 38–50; b = 4.3–5.0; c = 30–50; V = 50–52%. ♂: L = 2.0–2.6 mm; a = 31–38; b = 3.0–4.3; c = 44–49%; PO: 8–10. (Holland, Germany, Austria, Czechoslovakia, Hungary, Switzerland, Soviet Union [Russia, Belorussia, Georgia, Uzbekistan, Kazakhstan, Azerbaijan].) ..... *similis* (DE MAN)
- 11 Lip region narrow, conoid; spear 16–18  $\mu\text{m}$  long. — ♀: L = 1.6–2.6 mm; a = 29–42; b = 3.7–5.2; c = 41–54; V = 42–49%. ♂: L = 2.0–2.5 mm; a = 35–43; b = 4.3–5.0; c = 37–48; PO: 7–11. (Antarctic.) ..... *coniceps* LOOF
- Lip region broad, discoid; spear 20  $\mu\text{m}$  long. — ♀: L = 1.6–2.6 mm; a = 44–53; b = 4.4; c = 31–32; V = 51%. ♂ unknown (East Germany.) ..... *schaederi* ALTHERR
- 12 Female tail very short, about one anal diameter. ..... 13
- Female tail conspicuously longer than one anal diameter. ..... 15
- 13 Adanal papillae of male located farther from anus than usual (2/3 tail length); very large species, 2.9–3.5 mm. — ♀: L = 2.9–3.5 mm; a = 32–37; b = 3.7–4.6; c = 72–103; V = 48–55%. ♂: L = 2.9–3.4 mm; a = 34–41; b = 3.8–4.5; c = 67–84; PO: 13–17. (Antarctic.) ..... *isokaryon* LOOF
- Adanal papillae of male located as usual (1/4–1/3 tail length). ..... 14
- 14 Supplements contiguous, 11–21 in number; head sharply set off. — ♀: L = 2.4 mm; a = 30; b = 4.3; c = 41; V = 52%. ♂: L = 2.4; a = 31; b = 4.1; c = 40; PO: 11–21. (United States: Colorado.) ..... *coloradensis* LOOF
- Supplements spaced, 13–14 in number; head hardly set off. — ♀: L = 2.1–2.8 mm; a = 22–27; b = 3.6–4.2; c = 48–68; V = 46–51%. ♂: L = 2.3–2.4 mm; a = 25–27; b = 3.8–3.9; c = 49–63; PO: 13–14. (Antarctic.) ..... *verrucosus* LOOF
- 15 Spear very robust, as thick as 1/3 labial diameter, 31–38  $\mu\text{m}$  long. — ♀: L = 2.0–2.6 mm; a = 24–30; b = 3.9–4.0; c = 27–41; V = 45–51%. ♂ unknown. (Spitzbergen.) ..... *megadon* LOOF
- Spear not so robust, 24–29  $\mu\text{m}$  long. ..... 16
- 16 Tip of tail digitate, rounded and transversely striated. — ♀: L = 2.9 mm; a = 32; b = 4.7; c = 46; V = 45%. ♂ unknown. (Austria.) ..... *paradiscolaimioideus* ALTHERR
- Tip of tail not digitate, pointed and smooth, ..... 17

- 17 Tail two anal diameters long. — ♀: L = 2.3–3.1 mm; a = 28–34; b = 3.7–5.1; c = 28–34; V = 40–49%. ♂: L = 2.2–2.4 mm; a = 32–35; b = 3.8–4.4; c = 40–43; PO: 10–11. (Mongolia) ..... *imitatoris* GAGARIN
- Tail 1.5 anal diameters long. ..... 18
- 18 Spear as thick as cuticle in the same level. — ♀: L = 2.1 mm; a = 29; b = 5.0; c = 43; V = 48%. ♂: L = 2.1 mm; a = 37; b = 4.7; c = 44; PO: 8–10. (Hungary, Poland, Italy, Soviet Union [Moldavia, Russia],) ..... *maritus* ANDRÁSSY
- Spear half as thick as cuticle in the same level. — ♀ unknown. ♂: L = 2.0 mm; PO: 8. (East Germany.) ..... *parabokori* ALTHERR
- 19 Tail 2.5–3 anal diameters long. ..... 20
- Tail shorter than 2.5 anal diameters. ..... 25
- 20 Head not set off, continuous with neck; spear 22  $\mu$ m long. — ♀: L = 1.6 mm; a = 36; b = 5.0; c = 20; V = 47%. ♂ unknown. (Czechoslovakia, Poland, Bulgaria, Soviet Union [Lithuania, Uzbekistan], Cuba) ..... *bureshi* (ANDRÁSSY)
- Head distinctly set off; spear shorter, 14 to 18  $\mu$ m. ..... 21
- 21 Tail tip digitate, rounded. — ♀: L = 1.0–1.1 mm; a = 24–28; b = 3.6–4.2; c = 17–23; V = 49–54%. ♂ unknown. (South Africa) ..... *fransus* (HEYNS)
- Tail tip sharp, pointed. ..... 22
- 22 Tail arched, distinctly bent ventrally. ..... 23
- Tail not arched, hardly bent ventrally. — ♀: L = 1.1–1.5 mm; a = 21–27; b = 3.9–4.4; c = 24–25; V = 49%. ♂ unknown. (Brazil) ..... *ibiti* (LORDELLO)
- 23 Larger species, 1.6 mm. — ♀: L = 1.6 mm; a = 24; b = 4; c = 16; V = 45%. ♂ unknown. (Soviet Union: Kazakhstan) ..... *turkestanicus* (ELIAVA)
- Smaller species, near 1 mm. ..... 24
- 24 Aperture occupying 1/2 spear length; oesophagus enlarged near middle; prerectum 4 times as long as rectum. — ♀: L = 1.0 mm; a = 33; b = 3.3; c = 25; V = 50%. ♂: L = 1.0 mm; a = 39; b = 3.9; c = 26; PO: 3. (United States: Utah) ..... *paucipapillatus* n. nom.
- Aperture occupying 1/3 spear length; oesophagus enlarged in 60% of its length; prerectum 2–3 times as long as rectum. — ♀: L = 0.9–1.2 mm; a = 22–30; b = 3.2–4.5; c = 15–27; V = 46–56%. ♂ unknown. (Poland, Soviet Union [Georgia], United States [Indiana]) ..... *silvaticus* (BRZESKI)
- 25 Tail shorter, 1.5 anal diameters (c mostly well over 30), its ventral contour straight and only bent on the tip. ..... 26
- Tail longer, 1.5–2 anal diameters (c generally less than 30), its ventral contour arcuate, entirely bent. ..... 33

- 26 Tip of tail distinctly rounded. — ♀: L = 1.1–1.4 mm; a = 20–27; b = 3.3–3.8; c = 24–40; V = 54–61%. ♂ unknown. (United States: Indiana, South Dakota.) ..... *subdigitalis* TJEPKEMA, FERRIS & FERRIS  
— Tip of tail pointed. ..... 27
- 27 Tails of both sexes somewhat different: female tail slightly curved, male tail straight. — ♀: L = 1.2–1.7 mm; a = 29–42; b = 3.7–5.6; c = 35–50; V = 44–52%. ♂: L = 1.4–1.8 mm; a = 32–50; b = 3.8–5.1; c = 31–40; PO: 7–9. (Antarctic.) ..... *antarcticus* (STEINER)
- Tails of both sexes similar, ventrally curved. ..... 28
- 28 Ventromedial supplements 6–9. ..... 29
- Ventromedial supplements 10–18 (exceptionally 9). ..... 31
- 29 Tails of both sexes on the ventral surface pectinate. — ♀: 1.2 mm; a = 26; b = 3.6; c = 34; V = 61%. ♂: L = 1.1 mm; a = 30; b = 3.5; c = 32; PO: 7. (Soviet Union: Far East.) ..... *pectinatus* MUKHINA  
— Tails of both sexes on the ventral surface smooth. ..... 30
- 30 Lips angular; spicula unusually slender. — ♀: L = 1.7 mm; a = 24; b = 4.1; c = 30; V = 55%. ♂: L = 1.7 mm; a = 27; b = 4.2; c = 29; PO: 8–9. (United States: Minnesota, South Dakota.) ..... *magistri* n. nom.  
— Lips rounded; spicula robust. — ♀: L = 1.5–2.3 mm; a = 28–35; b = 3.6–4.7; c = 36–64; V = 44–52%. ♂: L = 1.3–2.0 mm; a = 29–34; b = 3.7–4.6; c = 42–59; PO: 6–9. (Antarctic.) ..... *spauilli* LOOF
- 31 Aperture 1/2 of spear length; supplements numerous (12–18). — ♀: L = 1.4–1.8 mm; a = 23–28; b = 4.0–4.7; c = 28–38; V = 56–58%. ♂: L = 1.4–1.7 mm; a = 24–32; b = 4.0–4.7; c = 29–35; PO: 12–18. (Holland, Germany, Austria, Czechoslovakia, Hungary, Yugoslavia, Spain, Greenland, Soviet Union [Russia, Belorussia, Moldavia, Lithuania, Georgia, Azerbaijan, Kirghizia, Tadzhikistan], United States [Montana, Colorado, North- and South Dakota].) ..... *acuticauda* (DE MAN)  
— Aperture 1/3 of spear length; supplements less numerous (9–13). ..... 32
- 32 Female prerectum with caudal blind sack; spicula 43–45  $\mu\text{m}$  long. — ♀: L = 1.1–1.3 mm; a = 21–25; b = 4.2–4.4; c = 35; V = 52–54%. ♂: L = 1.0 mm; a = 20–23; b = 3.6–3.8; c = 33–37; PO: 10–12. (Germany, Hungary, Soviet Union [Russia, Uzbekistan], Mongolia.) ..... *bombylectus* ANDRÁSSY  
— Female prerectum without blind sack; spicula 50–60  $\mu\text{m}$  long. — ♀: L = 1.2–1.5 mm; a = 18–29; b = 3.4–4.4; c = 36–53; V = 47–58%. ♂: L = 1.1–1.4 mm; a = 17–32; b = 3.2–4.0; c = 32–44; PO: 9–13. (Poland, Italy, Soviet Union [Russia, Uzbekistan, Kazakhstan], United States [Utah, North- and South Dakota].) ..... *arcus* (THORNE & SWANGER)

- 33 Head continuous with neck, lips hardly separate, rounded. . . . . 34  
 – Head more or less set off, lips separate, mostly angular. . . . . 36
- 34 Head broad, with finely wrinkled anterior margin. – ♀: L = 1.5–1.8 mm; a = 30–38; b = 4.2–5.0; c = 30–41; V = 44–49%. ♂ unknown. (Hungary, Poland.) . . . . . rugosus (ANDRÁSSY)  
 – Head narrow, with smooth anterior margin. . . . . 35
- 35 Spear 11–15  $\mu\text{m}$ , aperture occupying 1/6 of its length; female gonads unusually long; supplements 3–7. – ♀: L = 1.3–1.4 mm; a = 24–30; b = 4.5–5.2; c = 19–25; V = 47–50%. ♂: L = 1.2–1.4 mm; a = 28–33; b = 4.9–5.7; c = 29–33; PO: 3–7. (Holland, Germany, Austria, Czechoslovakia, Hungary, England, Norway, Sweden, Romania, Spain, Italy, Soviet Union [Russia, Georgia, Uzbekistan, Azerbaijan, Kazakhstan], Egypt, Zaire, Australia.) . . . . . iners (BASTIAN)
- Spear 18–19  $\mu\text{m}$ , aperture occupying 1/3 of its length; female gonads normal; supplements 9. – ♀: L = 1.5–1.8 mm; a = 28–34; b = 3.8–4.1; c = 33–34; V = 52–53%. ♂: L = 1.3–1.4 mm; a = 25–27; b = 3.3–3.6; c = 30–39; PO: 9. (Romania, Bulgaria.) . . . . . perspicuus (ANDRÁSSY)
- 36 Amphidial cup broad, quadrangular. . . . . 37  
 – Amphidial cup conspicuously narrowing posteriorly, never quadrangular. . . . . 38
- 37 Tail shorter, 1.5 anal diameters (c = 37). – ♀: L = 1.5 mm; a = 34; b = 3.8; c = 37; V = 49%. ♂ unknown. (Argentina.) . . . . . quadramphidius ANDRÁSSY  
 – Tail longer, 2 anal diameters (c = 17–26). – ♀: L = 0.8–1.3 mm; a = 21–37; b = 3.4–4.4; c = 17–26; V = 49–56%. ♂ unknown. (United States: Indiana, North- and South Dakota.) . . . . . aquilonarius TJEPKEMA, FERRIS & FERRIS
- 38 Female gonads very long, with numerous eggs (to 14) at the same time. – ♀: L = 1.5–2.0 mm; a = 25–32; b = 4.0–5.2; c = 23–30; V = 48–50%. ♂: L = 1.6–2.0 mm; a = 30–35; b = 4–5; c = 21–30; PO: 6–7. (Holland, Germany, Czechoslovakia, Hungary, Poland, Yugoslavia, Soviet Union [Russia, Uzbekistan, Kazakhstan], Ghana.) . . . . . leuckarti (BÜTSCHLI)  
 – Female gonads normally long, not producing so many eggs. . . . . 39
- 39 Vulva far back, in 60–64% of body length. – ♀: L = 1.2–1.4 mm: a = 22–31; b = 3.2–3.7; c = 22–29; V = 58–64%. ♂: L = 1.5 mm; a = 33–35; b = 4.3; c = 30–32; PO: 12. (Switzerland, Czechoslovakia, Romania, Soviet Union [Georgia].) . . . . . opistohystera (ALTHERR)  
 – Vulva not so far back. . . . . 40
- 40 Smaller species, 0.7–1.3 mm. . . . . 41  
 – Larger species, 1.3–2.1 mm. . . . . 46

- 41 Cuticle on the entire body with fine but distinct striation. — ♀: L = 1.0–1.2 mm; a = 26–28; b = 2.8–3.6; c = 21–25; V = 55–60%. ♂ unknown. (Spitzbergen.) ..... **subjunctus** LOOF
- Cuticle smooth or striation, if present, restricted to the tail. ..... 42
- 42 Lips rounded and amalgamated. ..... 43
- Lips angular and separate. ..... 44
- 43 Prerectum 3–4 times anal diameter; tip of tail digitate. — ♀: L = 0.9 mm; a = 30; b = 5; c = 25; V = 45%. ♂ unknown. (United States: Virginia.) .. **junctus** (COBB in THORNE & SWANGER)
- Prerectum 2 times anal diameter; tip of tail not digitate. — ♀: L = 0.9 mm; a = 27; b = 3.6; c = 21; V = 51%. ♂ unknown. (Czechoslovakia, United States [Washington].) ..... **nodus** (THORNE & SWANGER)
- 44 Vulva longitudinal, in 56–62% of body length. — ♀: L = 0.7–1.0 mm; a = 17–24; b = 2.9–3.9; c = 17–32; V = 56–62%. ♂ unknown. (India, United States [Indiana, South Dakota].) ..... **sabulophilus** TJEPKEMA, FERRIS & FERRIS
- Vulva transverse, in 45–56% of body length. ..... 45
- 45 Spear as long as labial diameter. — ♀: L = 0.8–1.2 mm; a = 24–39; b = 3.5–4.3; c = 19–24; V = 48–53%. ♂ unknown. (United States: Indiana.) ..... **meridionalis** TJEPKEMA, FERRIS & FERRIS
- Spear distinctly longer (to 1.5 times) than labial diameter. — ♀: L = 0.9–1.3 mm; a = 23–38; b = 3.2–4.4; c = 17–29; V = 45–56%. ♂: L = 1.0 mm; a = 29; b = 3.6; c = 25; PO: 7. (Switzerland, Spain, France, Yugoslavia, Bulgaria, Italy, Soviet Union [Russia], United States [Indiana].) .... **brevis** (ALTHERR)
- 46 Dorsal contour of tail somewhat depressed in the middle; spicula shorter than tail. — ♀: L = 1.3–1.6 mm; a = 22–31; b = 4.1–4.8; c = 21–26; V = 50–54%. ♂: L = 1.2–1.7 mm; a = 25–32; b = 3.5–5.0; c = 21–26; PO: 7–8. (Soviet Union: Georgia.) ..... **paramonovi** ELIAVA & BAGATURIA
- Dorsal contour of tail not depressed; spicula longer than tail. ..... 47
- 47 Vulva longitudinal. — ♀: L = 1.8–2.1 mm; a = 27–35; b = 4.0–4.5; c = 32–46; V = 44–51%. ♂: L = 1.6–2.1 mm; a = 33–39; b = 3.6–5.0; c = 32–46; PO: 6–13. (Antarctic.) ..... **pseudocarteri** LOOF
- Vulva transverse. ..... 48
- 48 Aperture occupying 50–55% of spear length. — ♀: L = 1.7–2.1 mm; a = 24–35; b = 3.0–4.1; c = 26–40; V = 51–57%. ♂ unknown. (Switzerland, Czechoslovakia.) ..... **jurassicus** (ALTHERR)
- Aperture occupying 30–40% of spear length. ..... 49

- 49 Spear  $18-20 \mu\text{m}$  long. — ♀: L = 1.3–1.8 mm; a = 22–34; b = 3.7–4.6; c = 27–38; V = 48–55%. ♂ unknown. (United States: Indiana.) ..... *altherri* TJEPKEMA, FERRIS & FERRIS
- Spear 22–24  $\mu\text{m}$  long. — ♀: L = 1.5–2.0 mm; a = 22–33; b = 3.5–4.7; c = 24–31; V = 48–55%. ♂: L = 1.5–2.0 mm; a = 25–33; b = 3.6–5.0; c = 20–39; PO: 6–11. (Holland, Germany, Denmark, England, Iceland, Norway, Sweden, Greenland, Poland, Czechoslovakia, Austria, Hungary, Jugoslavia, Spain, France, Italy, Soviet Union [Russia, Latvia, Estonia, Lithuania, Belorussia, Georgia, Uzbekistan, Tadzhikistan, Azerbaijan, Kazakhstan, Kirgizia], India, Japan, Taiwan, Java, Sumatra, Kenya, United States [Indiana, Utah, South Dakota], Campbell Islands, New Zealand.) ..... *carteri* (BASTIAN)
- 50 Tail dorsally curved (with concave dorsal contour) ..... 51
- Tail straight. ..... 54
- 51 Tail 2.5–3 anal diameters long, with very sharp tip. — ♀: L = 1.3–1.4 mm; a = 35–37; b = 4.4–4.6; c = 24–26; V = 55–57%. ♂ unknown. (Chile.) ..... *franzi* ANDRÁSSY
- Tail 1–1.5 anal diameters long, with moderately sharp tip. ..... 52
- 52 Tail 1.5 anal diameters, conoid. ..... 53
- Tail one anal diameter, digitate. — ♀: L = 1.4–1.9 mm; a = 20–35; b = 3.9–4.3; c = 40–65; V = 51–54%. ♂ unknown. (Holland, Germany, Denmark, Sweden, Czechoslovakia, Austria, Hungary, Romania, Spain, France, Soviet Union [Russia, Belorussia, Estonia, Lithuania, Moldavia, Georgia, Uzbekistan, Kazakhstan, Azerbaijan, Turkmenia], Java, Ivory Coast, Zaire, Jamaica.) ..... *centrocercus* (DE MAN)
- 53 Ventral contour of tail convex. — ♀ 1.4 mm; a = 22; b = 4.5; c = 40; V = 53%. ♂ unknown. (Locality unknown.) ..... *truncatus* (COBB in THORNE & SWANGER)
- Ventral contour of tail straight. — ♀: L = 1.0–1.4 mm; a = 21–26; b = 3.0–3.7; c = 24–34; V = 50–54%. ♂: L = 1.8 mm; a = 34; b = 4.0; c = 38; PO: 7. (India.) ..... *chauhani* (BAQRI & KHERA)
- 54 Tail 2.5 anal diameters long; aperture 1/4 of spear length. — ♀: L = 1.4 mm; a = 31; b = 3.5; c = 19; V = 48%. ♂ unknown. (Sweden.) ..... *enckelli* ANDRÁSSY
- Tail 1–1.5 anal diameters long; aperture 1/3 of spear length or longer. ..... 55
- 55 Body 2 mm long; tail regularly conical. — ♀: L = 2.0 mm; a = 30; b = 4; c = 45; V = 54%. ♂ unknown. (Soviet Union [Georgia], United States [Ohio, Utah].) ..... *acutus* (THORNE & SWANGER)
- Body 1.5 mm long; tail approximatively conoid. ..... 56
- 56 Spear  $19-21 \mu\text{m}$  long. — ♀: L = 1.5 mm; a = 28; b = 4.3; c = 34; V = 55%. ♂: L = 1.4 mm; a = 27; b = 3.7; c = 41; PO: 16. (Hungary.) ..... *paesleri* ANDRÁSSY
- Spear  $15 \mu\text{m}$  long. ..... 57

- 57 Lip region set off by constriction; vulva in 60% of body length. — ♀: L = 1.4 mm; a = 29; b = 3.6; c = 37; V = 60%. ♂ unknown. (United States: South Dakota.) ..... **longicardius THORNE**
- Lip region slightly set off; vulva in 50% of body length. — ♀: L = 1.5 mm; a = 25; b = 4.5; c = 30; V = 50%. ♂ unknown. (United States: South Dakota.) ..... **conicaudatus THORNE**

#### Remarks

*Eudorylaimus acuticauda*. — *Eudorylaimus georgiensis* ELIAVA & BAGATURIA, 1968 seems to be conspecific with *E. acuticauda* (the measurements, spear length, tail shape and number of supplements agree very well with those of *acuticauda*); I synonymize *georgiensis* with de MAN's species.

*Eudorylaimus acutiens*. — Both description and illustrations are meagre. Owing to the far post-equatorial vulva (in 69% of body length) this species will be hardly an *Eudorylaimus*; a species inquirenda.

*Eudorylaimus arcus*, — *Aporcelaimus mulveyi* BRZESKI, 1962 is identical with *E. arcus* (the same measurements, spear length, tail shape and number of supplements).

*Eudorylaimus bombilectus*. — I cannot find any significant differences between this species and *Eudorylaimus bombilectoides* ALTHERR, 1965, hence the latter is a junior synonym of the former.

*Eudorylaimus brevis*. — On the basis of the description and illustrations *Eudorylaimus in-dianensis* TJEPKEMA, FERRIS & FERRIS, 1971 cannot be distinguished from *E. brevis*.

*Eudorylaimus carteri*. — *Eudorylaimus varians* THORNE, 1974 cannot be separated from *E. carteri*; the only difference between them is the seemingly stronger guiding ring in *varians*. In my opinion THORNE's species is a junior synonym of *carteri*.

*Eudorylaimus centrocercus*. — Both *Dorylaimus obesus* COBB in THORNE & SWANGER and *Dorylaimus paracentrocercus* DE CONINCK, 1935 agree in their general habit and peculiar tail shape so exactly with *E. centrocercus* that there is scarcely doubt about their identity. The male described by DE MAN in 1907 as *centrocercus* probably belongs to *Aporcelaimellus obtusicaudatus*.

*Eudorylaimus lindbergi*. — *Eudorylaimus curvicaudatus* ELIAVA, 1968 shows the characteristics of *E. lindbergi* (in the shape of lips, spear length, expansion of oesophagus, shape and length of tail, measurements) so that I regard it as a junior synonym of the latter species.

*Eudorylaimus magistri*. — See *Allodorylaimus andrassyi*.

*Eudorylaimus parabokori*. — It is possible that this species, known in male form only, is identical with *E. maritus*. After the description of ALTHERR (1974) it can be solely distinguished by the more slender spear from *maritus*.

*Eudorylaimus paucipapillatus*. — The "Dorylaimus parvus" of THORNE and SWANGER (1936) differs in three respects from the species of DE MAN: the body is longer (1.0 : 0.5–0.7 mm), the prerectum much longer (4 : 1.5 anal diameters) and the number of supplements fewer (3 : 5–8). I consider these differences as significant in separating the American species and propose for it the name *Eudorylaimus paucipapillatus* n. nom.

#### The present status of the "Eudorylaimus" species

<i>accentruatus</i> (THORNE & Sw., 1936).	<i>Thonus a.</i> (Th. & Sw.) n. comb.
<i>acuticauda</i> (DE MAN, 1880) .....	!*
<i>acutiens</i> (SCH. STEKHOVEN, 1951) ..	species inquirenda
<i>acutus</i> (THORNE & Sw., 1936) .....	!
<i>adipatus</i> BRZESKI, 1962 .....	Syn. of <i>Dorydorella bryophila</i>
<i>afer</i> ANDRÁSSY, 1964 .....	<i>Laimydorus a.</i> (A.) n. comb.
<i>agilis</i> (DE MAN, 1880) .....	<i>Epidorylaimus a.</i> (DE M.) n. comb.

\* A mark of exclamation (!) means that the species still belongs to the genus *Eudorylaimus* s. str.

<i>albionensis</i> (VAN DER LINDE, 1938)	species inquirenda
<i>alleni</i> BRZESKI, 1962	<i>Rhyssocolpus</i> a. (B.) n. comb.
<i>allgeni</i> (ANDRÁSSY, 1958)	<i>Allodorylaimus</i> a. (A.) n. comb.
<i>alpinus</i> (STEINER, 1914)	<i>Allodorylaimus</i> a. (S.) n. comb.
<i>altherri</i> TJEPKEMA, F. & F., 1971	!
<i>amabilis</i> (JAIRAJPURI, 1965)	<i>Qudsianema</i> a. J.
<i>amylovorus</i> (THORNE & SW., 1936)	<i>Aporcelaimellus</i> a. (TH. & Sw.) HEYNNS, 1965
<i>andrassyi</i> (MEYL, 1955)	<i>Allodorylaimus</i> a. (M.) n. comb.
<i>angleus</i> THORNE 1974	<i>Microdorylaimus</i> a. (TH.) n. comb.
<i>angulosus</i> (THORNE & SW., 1936)	<i>Epidorylaimus</i> a. (TH. & Sw.) n. comb.
<i>angusticephalus</i> (STEINER, 1914)	<i>Laimyldorus</i> a. (S.) n. comb. (?)
<i>antarcticus</i> (STEINER, 1916)	!
<i>aquaticus</i> ELIAVA, 1968	<i>Paradorylaimus</i> a. (E.) n. comb. (?)
<i>auquilonarius</i> TJEPKEMA, F. & F.,	!
<i>arcus</i> (THORNE & SW., 1936)	!
<i>arenicola</i> (ALTHERR, 1958)	<i>Labronema</i> a. (A.) n. comb.
<i>asymmetricus</i> (THORNE & SW., 1936)	= <i>Laevides americanus</i> n. nom.*
<i>australis</i> (YEATES, 1967)	<i>Thonus</i> a. (Y.) n. comb.
<i>balticus</i> (SCHULZ, 1935)	<i>Aporcelaimus</i> b. (SCH.) n. comb.
<i>bokori</i> (ANDRÁSSY, 1959)	<i>Allodorylaimus</i> b. (A.) n. comb.
<i>bombylectoides</i> ALTHERR, 1965	Syn. of <i>Eudorylaimus bombylectus</i> !
<i>bombylectus</i> ANDRÁSSY, 1962	
<i>brachyccephalus</i> (THORNE & SW., 1936)	
<i>brevidens</i> (THORNE & SW., 1936)	<i>Thonus</i> b. (TH. & Sw.) n. comb.
<i>brevis</i> (ALTHERR, 1952)	<i>Thonus</i> b. (TH. & Sw.) n. comb.
<i>brevispicatus</i> (SCH. STEKHOVEN, 1951).	!
<i>brunettiae</i> (MEYL, 1953)**	<i>Mesodorylaimus</i> b. (S.) n. comb. (?)
<i>bryophilus</i> (DE MAN, 1880)	<i>Willinema</i> b. (M.) n. comb.
<i>bureshi</i> (ANDRÁSSY, 1958)	<i>Dorydorella</i> b. (DE M.) ANDRÁSSY, 1986
<i>capitatus</i> (THORNE & SW., 1936)	!
<i>carteri</i> (BASTIAN, 1865)	<i>Aporcelaimellus</i> c. (TH. & Sw.) HEYNNS, 1965
<i>centrocercus</i> (DE MAN, 1880)	!
<i>cephalatus</i> (SCH. STEKHOVEN, 1951)	!
<i>chauhanii</i> (BAQRI & KHERA, 1975)	<i>Axonchium</i> c. (S.) n. comb.

\* *Dorylaimus asymmetricus* THORNE & SWANGER, 1936 is a representative of the family Nygolaimidae and belongs most probably to the genus *Laevides* (HEYNS, 1968). The specific name "asymmetricus" is however already occupied for *Laevides asymmetricus* (ANDRÁSSY, 1962) AHMAD & JAIRAJPURI, 1982, I propose therefore the new name *Laevides americanus* n. nom. for the species of THORNE and SWANGER. *L. americanus* may be distinguished from *L. asymmetricus* by the smaller body (1.3 versus 1.9–2.0 mm), the plumper shape ( $a = 28$  versus 45–47), the conoid head and the comparatively longer tail ( $c = 41$  versus 64–80).

\*\* MEYL named the species in honour of Dr. BEATRICE BRUNETTI (a lady). The original form, "brunettii", must be transformed therefore into *brunettiae*.

<i>cinctus</i> (COBB in TH. & SW., 1936) . . . . .	Syn. of <i>Allodorylaimus diadematus</i>
<i>circulifer</i> LOOF, 1961 . . . . .	<i>Thonus c.</i> (L.) THORNE, 1974
<i>coloradensis</i> LOOF, 1971 . . . . .	!
<i>condamni</i> (VANHA, 1893) . . . . .	<i>Labronema c.</i> (V.) n. comb.
<i>confusus</i> (THORNE, 1939) . . . . .	<i>Thonus c.</i> (TH.) n. comb.
<i>confusus</i> THORNE, 1974 . . . . .	Syn. of <i>Thonus retractus</i>
<i>conicaudatus</i> THORNE, 1974 . . . . .	!
<i>coniceps</i> LOOF, 1975 . . . . .	!
<i>consobrinus</i> (DE MAN, 1918) . . . . .	<i>Epidorylaimus c.</i> (DE M.) n. comb.
<i>crassiformis</i> (KREIS, 1924) . . . . .	<i>Makatinus c.</i> (K.) n. comb. (?)
<i>curvatus</i> (THORNE & SW., 1936) . . . . .	Syn. of <i>Epidorylaimus lugdunensis</i>
<i>curvicaudatus</i> ELIAVA, 1968 . . . . .	Syn. of <i>Eudorylaimus lindbergi</i>
<i>cuspidatus</i> ANDRÁSSY, 1964 . . . . .	<i>Longidorella c.</i> (A.) JAIRAJPURI & HOOPER, 1969
<i>dermatus</i> (THORNE, 1939) . . . . .	<i>Labronema d.</i> (TH.) n. comb.
<i>diadematus</i> (COBB in TH. & SW., 1936) . . . . .	<i>Allodorylaimus d.</i> (C.) n. comb.
<i>digiticaudatus</i> (SCH. STEKHOVEN, 1951) . . . . .	<i>Thonus d.</i> (S.) n. comb.
<i>digiturus</i> (THORNE, 1939) . . . . .	<i>Allodorylaimus d.</i> (TH.) n. comb.
<i>diminutivus</i> (THORNE & SW., 1936) . . . . .	<i>Microdorylaimus d.</i> (TH. & SW.) n. comb.
<i>discolaimioideus</i> (ANDRÁSSY, 1958) . . . . .	<i>Discolaimum d.</i> (A.) ANDRÁSSY, 1971
<i>dogieli</i> (TULAGANOV, 1949) . . . . .	<i>Thonus d.</i> (T.) n. comb.
<i>doryuris</i> (DITLEVSEN, 1911) . . . . .	<i>Laimydorus d.</i> (D.) n. comb.
<i>dubius</i> THORNE, 1974 . . . . .	<i>Aporcelaimellus d.</i> (TH.) n. comb.
<i>duhouxi</i> ALTHERR, 1963 . . . . .	<i>Aporcelaimellus d.</i> (A.) BAQRI & KHERA, 1975
<i>efficiens</i> (COBB in TH. & SW., 1936) . . . . .	<i>Apercelaimellus e.</i> (C.) BAQRI & KHERA, 1975
<i>enckelli</i> ANDRÁSSY, 1967 . . . . .	!
<i>eremitus</i> (THORNE, 1939) . . . . .	!
<i>ettersbergensis</i> (DE MAN, 1885) . . . . .	<i>Thonus e.</i> (DE M.) n. comb.
<i>filicaudatus</i> TJEPKEMA, F. & F., 1971 . . . . .	<i>Epidorylaimus f.</i> (T.) n. comb.
<i>filipjevi</i> (GERLACH, 1951) . . . . .	species inquirenda
<i>fransus</i> (HEYNS, 1963) . . . . .	!
<i>franzi</i> ANDRÁSSY, 1967 . . . . .	!
<i>frigidus</i> (STEINER, 1916) . . . . .	<i>Aquatides f.</i> (S.) n. comb.
<i>geniculatus</i> ANDRÁSSY, 1961 . . . . .	<i>Afrodorylaimus g.</i> (A.) ANDRÁSSY, 1964
<i>georgiensis</i> ELIAVA & B., 1968 . . . . .	Syn. of <i>Eudorylaimus acuticauda</i>
<i>gibberoaculeatus</i> (KREIS, 1930) . . . . .	Syn. of <i>Ecumeninus monohysterna</i>
<i>gracilis</i> (DE MAN, 1876) . . . . .	Syn. of <i>Eudorylaimus iners</i>
<i>granuliferus</i> (COBB, 1893) . . . . .	<i>Allodorylaimus g.</i> (C.) n. comb.
<i>hastatus</i> ANDRÁSSY, 1963 . . . . .	<i>Oriverutus h.</i> (A.) SIDDIQI, 1970
<i>hawaiiensis</i> (COBB, 1906) . . . . .	<i>Thonus h.</i> (C.) n. comb.
<i>henrici</i> ANDRÁSSY, 1959 . . . . .	species inquirenda

- himalus* JAIRAJPURI & AHMAD,  
 1983 .....  
*holdemani* (ANDRÁSSY, 1959) .....  
*holsaticus* (SCHNEIDER, 1925) .....  
  
*humilior* ANDRÁSSY, 1959 .....  
*humilis* (THORNE & Sw., 1936) .....  
  
*husmanni* ALTHERR, 1972 .....  
*ibiti* LORDELLO, 1965 .....  
*imitatoris* GAGARIN, 1982 .....  
*incisus* (THORNE & Sw., 1936) .....  
*index* (THORNE, 1939) .....  
*indianensis* TJEPKEMA, F. & F.,  
 1971 .....  
*indicus* SONI & NAMA, 1880 .....  
*iners* (BASTIAN, 1865) .....  
*insignis* (LOOS, 1945) .....  
*intermedius* (DE MAN, 1880) .....  
  
*intertextus* (THORNE & Sw., 1936) .  
  
*intrastriatus* (LOOS, 1945) .....  
*irritans* (COBB in TH. & Sw., 1936) .  
*isokaryon* LOOF, 1975 .....  
*junctus* (COBB in TH. & Sw., 1936)  
*jurassicus* (ALTHERR, 1953) .....  
*kaszabi* (ANDRÁSSY, 1959) .....  
*khazariensis* CHESUNOV, 1985 .....  
*kirjanovae* (TULAGANOV, 1949) ....  
*krygeri* (DITLEVSEN, 1928) .....  
*labiatus* (DE MAN, 1880) .....  
  
*laticollis* (DE MAN, 1907) .....  
*latus* (COBB, 1891) .....  
*lautus* ANDRÁSSY, 1959 .....  
*lentifer* (STEKHOVEN & TEUN.,  
 1938). .....  
*leptosoma* ALTHERR, 1963 .....  
*leptus* TJEPKEMA, F. & F., 1971 ...  
*leuckarti* (BÜTSCHLI, 1873) .....  
*lindbergi* ANDRÁSSY, 1960 .....  
*longicardius* THORNE, 1974 .....  
*longicollis* BRZESKI, 1964 .....  
*longidens* (THORNE & Sw., 1936) ...  
*lotharingiae* ALTHERR, 1963 .....  
*lugdunensis* (DE MAN, 1880) ....  
  
*Thonus* h. (J. & A.) n. comb.  
*Allodorylaimus* h. (A.) n. comb.  
*Chrysonemoides* h. (Sch.) SIDDIQI,  
 1969  
*Epidorylaimus* h. (A.) n. comb.  
*Epidorylaimus* h. (TH. & Sw.)  
 n. comb.  
*Allodorylaimus* h. (A.) n. comb.  
!  
!  
Syn. of *Epidorylaimus humilis*  
*Aporcelaimellus i.* (TH.) n. comb.  
  
Syn. of *Eudorylaimus brevis*  
?\*  
!  
*Thonus* i. (L.) n. comb.  
*Aquatides* i. (DE M.) AHMAD &  
 JAIRAJPURI, 1982  
*Pungentus* i. (TH. & Sw.) THORNE,  
 1939  
*Discolaimoides* i. (L.) LOOF, 1964  
*Allodorylaimus* i. (C.) n. comb.  
!  
!  
!  
*Thonus* k. (A.) VINCIGUERRA, 1981  
*Thonus* k. (CH.) n. comb.  
*Thonus* k. (T.) n. comb.  
*Aporcelaimellus* k. (D.) HEYNS, 1965  
*Aporcelaimium* l. (DE M.) LOOF &  
 COOMANS, 1970  
*Thonus* l. (DE M.) n. comb.  
*Labronema* l. (C.) n. comb. (?)  
*Thonus* l. (A.) n. comb.  
  
*Thonus* l. (S. & T.) n. comb.  
*Epidorylaimus* l. (A.) n. comb.  
Syn. of *Epidorylaimus lugdunensis*  
!  
!  
!  
*Microdorylaimus* l. (B.) n. comb.  
*Pungentus* l. (TH. & Sw.) n. comb.  
!  
*Epidorylaimus* l. (DE M.) n. comb.

\* Unfortunately I could not obtain the description of this species.

<i>magistri</i> n. nom. . . . .	!
<i>maksymovi</i> ALTHERR, 1963 . . . . .	<i>Chrysonemoides</i> m. (A.) SIDDIQI, 1969
<i>maritimus</i> (DITLEVSEN, 1913) . . . . .	!
<i>maritus</i> ANDRÁSSY, 1959 . . . . .	!
<i>megadon</i> LOOF, 1971 . . . . .	!
<i>mellenbachensis</i> ALTHERR, 1974 . . . . .	<i>Epidorylaimus</i> m. (A.) n. comb.
<i>meridionalis</i> TJEPKEMA, F. & F., 1971 . . . . .	!
<i>metobtusicaudatus</i> (STEKHOVEN & TEUN., 1938 . . . . .	<i>Thonus</i> m. (S. & T.) n. comb. (?)
<i>microdorus</i> (DE MAN, 1880) . . . . .	<i>Longidorella</i> m. (DE M.) GOODEY, 1963
<i>minor</i> (COBB in TH. & SW., 1936) . . . . .	<i>Microdorylaimus</i> m. (C.) n. comb.
<i>minusculus</i> (LOOS, 1946) . . . . .	<i>Microdorylaimus</i> m. (L.) n. comb.
<i>minutissimus</i> (ALTHERR, 1950) . . . . .	Syn. of <i>Microdorylaimus miser</i>
<i>minutus</i> (BÜTSCHLI, 1873) . . . . .	<i>Thonus</i> m. (B.) n. comb.
<i>miser</i> (THORNE & SW., 1936) . . . . .	<i>Microdorylaimus</i> m. (TH. & SW.) n. comb.
<i>modestus</i> (ALTHERR, 1952) . . . . .	<i>Microdorylaimus</i> m. (A.) n. comb.
<i>modicus</i> (KIRJANOVA, 1951) . . . . .	<i>Microdorylaimus</i> m. (K.) n. comb.
<i>monohystera</i> (DE MAN, 1880) . . . . .	<i>Ecumenicus</i> m. (DE M.) THORNE, 1974
<i>morbidus</i> LOOF, 1964 . . . . .	<i>Longidorella</i> m. (L.) JAIRAJPURI & HOOPER, 1969
<i>mosellae</i> ALTHERR, 1963 . . . . .	<i>Pungentus</i> m. (A.) n. comb.
<i>muchabbatae</i> (TULAGANOV, 1949) . . . . .	<i>Epidorylaimus</i> m. (T.) n. comb.
<i>mulveyi</i> (BRZESKI, 1962) . . . . .	Syn. of <i>Eudorylaimus arcus</i>
<i>muscorum</i> (SKWARRA, 1921) . . . . .	<i>Epidorylaimus</i> m. (S.) n. comb.
<i>nitidus</i> (COBB in TH. & SW., 1936) . . . . .	<i>Thonus</i> n. (C.) n. comb.
<i>nodus</i> (THORNE & SW., 1936) . . . . .	!
<i>noterophilus</i> TJEPKEMA, F. & F., 1971 . . . . .	Syn. of <i>Eudorylaimus silvaticus</i>
<i>nothus</i> (THORNE & SW., 1936) . . . . .	<i>Thonus</i> n. (TH. & SW.) THORNE, 1974
<i>obesus</i> (COBB in TH. & SW., 1936) . . . . .	Syn. of <i>Eudorylaimus centro cercus</i>
<i>obscurus</i> (THORNE & SW., 1936) . . . . .	<i>Aporcelaimellus</i> o. (TH. & SW.) HEYNS, 1965
<i>obtusicaudatus</i> (BASTIAN, 1865) . . . . .	<i>Aporcelaimellus</i> o. (B.) ALTHERR, 1968
<i>obtusus</i> (COBB, 1893) . . . . .	species inquirenda
<i>odhneri</i> (ALLGÉN, 1951) . . . . .	<i>Thonus</i> o. (A.) n. comb.
<i>opisthodelphus</i> (TH. & SW., 1936) . . . . .	<i>Willinema</i> o. (TH. & SW.) n. comb.
<i>opistohystera</i> (ALTHERR, 1953) . . . . .	!
<i>paesleri</i> ANDRÁSSY, 1964 . . . . .	!
<i>papillatus</i> (BASTIAN, 1865) . . . . .	<i>Aporcelaimus</i> p. (B.) n. comb.
<i>parabokori</i> ALTHERR, 1974 . . . . .	!
<i>paracentrocercus</i> (DE CONINCK, 1935) . . . . .	Syn. of <i>Eudorylaimus centro cercus</i>
<i>paracirculifer</i> BRZESKI, 1962 . . . . .	<i>Thonus</i> p. (B.) n. comb.

- paraconfusus* (ALTHERR, 1952) ....  
*paradiscolaimioideus* ALTHERR, 1976  
*paradoxus* LOOF, 1975 .....  
*paramonovi* ELIAVA & BAG., 1968 ..  
*paroobtusicaudatus* (MICOLETZKY,  
 1922) .....  
*parasimilis* (KREIS, 1963) .....  
*parvissimus* ELIAVA & BAG., 1968 ..  
  
*parvulus* (THORNE & SW., 1936) ...  
*parvus* (DE MAN, 1880) .....  
*parvus* (WILLIAMS, 1959) .....  
  
*parcipapillatus* n. nom. .....  
*parlovskii* (TULAGANOV, 1949) ....  
*pectinatus* MUKHINA, 1970 .....  
*penetrans* (THORNE & SW., 1936) ...  
  
*perspicuus* (ANDRÁSSY, 1958) ....  
*piracicabensis* (LORDELLO, 1955) ...  
*planipedius* (MERZHEEVSKAJA,  
 1951) .....  
*pratensis* (DE MAN, 1880) .....  
  
*productus* (THORNE & SW., 1936) ...  
*profestus* ANDRÁSSY, 1963 .....  
*projectus* (THORNE, 1939) .....  
*propinquus* (THORNE & SW., 1936)  
  
  
*pseudoagilis* (ALTHERR, 1952) ....  
*pseudocarteri* LOOF, 1975 .....  
*pycnus* (THORNE, 1939) .....  
  
*quadramphidius* ANDRÁSSY, 1963 ..  
*quietus* (KIRJANOVA, 1951) .....  
  
*rapsoides* HEYNS & LAG., 1965 ....  
*rapsus* HEYNS, 1963 .....  
*reisingeri* (DITLEVSEN, 1927) .....  
*retractus* THORNE, 1975 .....  
*reynecki* (VAN DER LINDE, 1938) ..  
*rhopalocercus* (DE MAN, 1876) .....  
*robustus* THORNE, 1974 .....  
*rugosus* (ANDRÁSSY, 1957) .....  
  
*Dorydorella p.* (A.) ANDRÁSSY, 1986  
 !  
*Rhyssocolpus p.* (L.) n. comb.\*  
 !  
  
*Aporcelaimellus p.* (M.) n. comb.  
*Allodorylaimus p.* (K.) n. comb.  
*Microdorylaimus p.* (E. & B.) n.  
 comb.  
*Thonus p.* (TH. & SW.) n. comb.  
*Microdorylaimus p.* (DE M.) n. comb.  
*Willinema p.* BAQRI & JAIRAJPURI,  
 1967  
 !  
*Syn of Thonus ettersbergensis*  
 !  
*Longidorella p.* (TH. & SW.) GOODEY,  
 1963  
 !  
*Allodorylaimus p.* (L.) n. comb.  
  
*Thonus p.* (M.) n. comb.  
*Dorydorella p.* (DE M.) ANDRÁSSY,  
 1986  
*Thonus p.* (TH. & SW.) n. comb.  
*Microdorylaimus p.* (A.) n. comb.  
*Thonus p.* (TH.) n. comb.  
*Aporcelaimellus p.* (TH. & SW.)  
 TJEPKEMA, FERRIS & FERRIS,  
 1971  
*Epidorylaimus p.* (A.) n. comb.  
 !  
*Aporcelaimellus p.* (TH.) BAQRI &  
 KHERA, 1975  
 !  
*Aporcelaimellus q.* (K.) BAQRI &  
 KHERA, 1975  
*Microdorylaimus r.* (H. & L.) n. comb.  
*Microdorylaimus r.* (H.) n. comb.  
*Syn. of Epidorylaimus lugdunensis*  
*Thonus r.* (TH.) n. comb.  
*Syn. of Allodorylaimus granuliferus*  
*Thonus r.* (DE M.) n. comb.  
*Allodorylaimus r.* (TH.) n. comb.  
 !

\* This species differs from the general characteristics of *Eudorylaimus*, it seems to be more a *Rhyssocolpus* (spear weak and thin, spear extension with muscular expansion, vulval regions wrinkled). I note however that it shows some peculiarities (a "bibulbar" oesophageal extension and contiguous supplements) which cannot be found in the known species of the latter genus.

- sabulophilus* TJEPKEMA, F. & F.,  
 1971 .....!  
*samarcanicus* (TULAGANOV, 1949)  
 !  
*santosi* (MEYL, 1957) .....  
*schraederi* ALTHERR, 1974 .....  
*septentrionalis* (KREIS, 1963) .....  
*silvaticus* BRZESKI, 1960 .....  
*silvestris* (DE MAN, 1912) .....  
*similis* (DE MAN, 1876) .....  
*simplex* (THORNE & Sw., 1936) .....  
*simus* (ANDRÁSSY, 1958) .....  
*skrjabini* (TULAGANOV, 1949) .....  
*sodakus* THORNE, 1974 .....  
*solus* ANDRÁSSY, 1962 .....  
*spaulli* LOOF, 1975 .....  
*spongiophylus* BATALOVA, 1983 .....  
*steineri* (THORNE & Sw., 1936) .....  
*stilus* (KIRJANOVA, 1951) .....  
*striatacaudatus* (COBB, 1906) .....  
*subacutus* (ALTHERR, 1952) .....  
*subdigitalis* TJEPKEMA, F. & F.,  
 1971 .....!  
*subjunctus* LOOF, 1971 .....  
*sublabiatus* (THORNE, & Sw., 1936) .....  
*submissus* (KIRJANOVA, 1951) .....  
*subsimilis* (COBB, 1893) .....  
*sulphasae* (TULAGANOV, 1949) .....  
*sundarus* WILLIAMS, 1964 .....  
*tarkoenensis* ANDRÁSSY, 1959 .....  
*tenuidens* (THORNE & Sw., 1936) .....  
*thornei* TJEPKEMA, F. & F., 1971 ..  
*torpidus* (BASTIAN, 1865) .....  
*tritici* (BASTIAN, 1865) .....  
*truncatus* (COBB in TH. & Sw., 1936)  
*tulaganovi* ERZHANOVA, 1964 .....  
*turkestanicus* ELIAVA, 1968 .....  
*udaipurensis* KHERA, 1971 .....  
*uniformis* (THORNE, 1929) .....  
*uzbekistanicus* (TULAGANOV, 1949)  
*vanrosseni* LOOF, 1971 .....  
*varians* THORNE, 1974 .....  
*verrucosus* LOOF, 1975 .....  
*vestibulifer* (MICOLETZKY, 1922) ...  
 !  
 Syn. of *Aporcelaimellus paraobtusicaudatus*  
*Allodorylaimus s.* (M.) n. comb.  
 !  
*Allodorylaimus s.* (K.) n. comb.  
 !  
*Pungentus s.* (DE M.) COOMANS &  
 GERAERT, 1962  
 !  
*Aporcelaimellus s.* (TH. & Sw.) LOOF  
 & COOMANS, 1970  
*Aporcelaimellus s.* (A.) n. comb.  
*Thonus s.* (T.) n. comb.  
*Thonus s.* (TH.) n. comb.  
*Thonus s.* (A.) n. comb.  
 !  
 !  
*Thonus s.* (TH. & Sw.) n. comb.  
*Aporcelaimellus s.* (K.) n. comb.  
*Akrotonus s.* (C.) n. comb.  
 Syn. of *Eudorylaimus acutus*  
 !  
 !  
*Aporcelaimus s.* (TH. & Sw.) BRZES-  
 SKI, 1962  
*Aporcelaimellus s.* (K.) BAQRI &  
 KHERA, 1962  
*Aporcelaimellus s.* (C.) n. comb.  
*Willinema s.* (T.) n. comb. (?)  
*Oriverutus s.* (W.) SIDDIQI, 1971  
*Allodorylaimus t.* (A.) n. comb.  
*Dorydorella t.* (TH. & Sw.)  
 ANDRÁSSY, 1985  
*Microdorylaimus t.* (T.) n. comb.  
 species inquirenda  
*Aporcelaimellus t.* (B.) n. comb.  
 !  
*Thonus t.* (E.) n. comb.  
 !  
*Tylencholaimellus u.* (K.) n. comb.  
*Allodorylaimus u.* (TH.) n. comb.  
*Thonus u.* (T.) n. comb. (?)  
*Thonus v.* (L.) n. comb.  
 Syn. of *Eudorylaimus carteri*  
 !

<i>ritrinus</i> (THORNE & SW., 1936) . . . .	<i>Aporcelaimellus v.</i> (TH. & SW.) BAQRI & KHERA, 1975
<i>rulvapapillatus</i> (MEYL, 1954) . . . .	<i>Labronema v.</i> (M.) LOOF & COOMANS, 1981
<i>rulvostriatus</i> (STEFANSKI, 1924) . . . .	<i>Rhyssocolpus v.</i> (S.) ANDRÁSSY, 1971
<i>yucatanensis</i> (CHITWOOD, 1938) . . . .	Syn. of <i>Allodorylaimus granuliferus</i>

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